



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 168708

TO: Rei-Tsang Shiao
Location: 5a10 / 5c18
Tuesday, October 18, 2005
Art Unit: 1626
Phone: 571-272-0707
Serial Number: 10 / 009304

From: Jan Delaval
Location: Biotech-Chem Library
Remsen 1a51
Phone: 571-272-2504

jan.delaval@uspto.gov

Search Notes

=> fil reg

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STRUCTURE FILE UPDATES: 17 OCT 2005 HIGHEST RN 865410-76-0
 DICTIONARY FILE UPDATES: 17 OCT 2005 HIGHEST RN 865410-76-0

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
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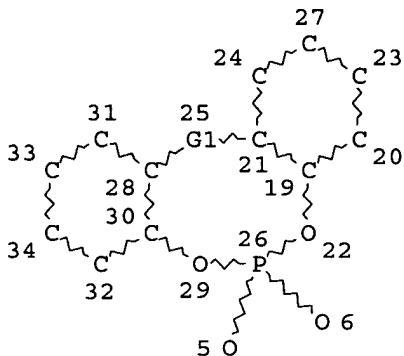
Structure search iteration limits have been increased. See HELP SLIMITS
 for details.

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 experimental property data in the original document. For information
 on property searching in REGISTRY, refer to:

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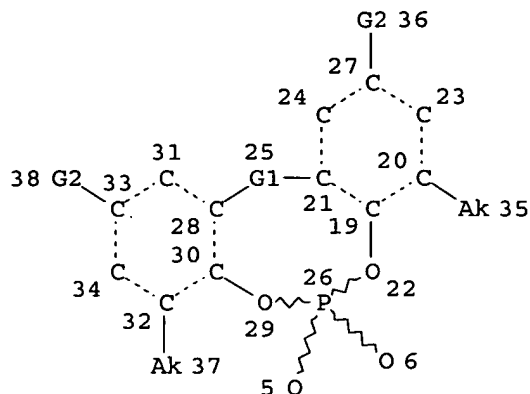
L33 STR



REP G1=(1-4) C
 NODE ATTRIBUTES:
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE
L35 552 SEA FILE=REGISTRY SSS FUL L33
L39 STR



REP G1=(1-4) C
VAR G2=H/AK
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M4 C AT 35
ECOUNT IS M4 C AT 37

GRAPH ATTRIBUTES:
RSPEC 27
NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE
L41 177 SEA FILE=REGISTRY SUB=L35 SSS FUL L39
L42 SCR 1918
L43 84 SEA FILE=REGISTRY SUB=L41 SSS FUL L42

FULL SUBSET SCREEN SEARCH COMPLETED
SEARCH TIME: 00.00.01

84 ANSWERS

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(FILE 'HOME' ENTERED AT 13:45:16 ON 18 OCT 2005)
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L2	9	S	E3
		E	TAKAHASHI K/AU
L3	1801	S	E3-E11,E41
		E	TAKAHASHI M/AU
L4	2069	S	E3-E7,E128-E130
		E	TAKAHASHI S/AU
L5	953	S	E3-E6,E87

L6 2287 S E3-E10
 E TAKAHASHI T/AU
 L7 321 S E20
 E TAKAHASHI TET/AU
 E MASAYUKI/AU
 L8 3 S E3,E47
 E TETSUYA/AU
 L9 3 S E3
 L10 3 S E44,E49
 E KAORI/AU
 E SAYURI/AU
 E HARUNA/AU
 L11 54 S E83,E95
 E TOHRU/AU
 L12 136308 S (ASAHI? OR DENKA? OR KOGYO?)/PA,CS
 L13 1313 S (NUCLEAT?(L)AGEN?)/CW,CT
 E NUCLEATING AGENT/CT
 E E4+ALL
 L14 21615 S E2+OLD,NT
 L15 776 S E13+OLD,NT
 L16 776 S E16+OLD,NT
 E CRYSTAL NUCLEAT/CT
 E E5+ALL
 L17 2344 S E2+OLD,NT
 L18 15029 S E5+OLD,NT
 L19 21 S L1-L11 AND L13-L18
 L20 119 S L12 AND L13-L18
 L21 8 S L19 AND L20
 L22 21 S L19,L21
 L23 8 S L22 AND ?PHOSPH?

FILE 'REGISTRY' ENTERED AT 13:54:09 ON 18 OCT 2005

FILE 'HCAPLUS' ENTERED AT 13:54:14 ON 18 OCT 2005

SET SMARTSELECT ON
 L24 SEL L23 1- RN : 51 TERMS
 SET SMARTSELECT OFF

FILE 'REGISTRY' ENTERED AT 13:54:15 ON 18 OCT 2005

L25 51 S L24
 L26 19 S L25 AND P/ELS AND NR>=3
 L27 15 S L26 NOT SPIRO
 L28 5 S L27 AND C29H43O4P
 L29 1 S L28 AND 1/NC
 L30 21 S 106396-29-6/CRN
 L31 22 S L28-L30
 L32 32 S L27,L31
 L33 STR
 L34 31 S L33
 L35 552 S L33 FUL
 SAV L35 SHIAO9304/A
 L36 345 S L35 AND (C6-C6-OPOC5 OR C6-C6-OPOC6 OR C6-C6-OPOC7 OR C6-C6-O
 L37 207 S L35 NOT L36
 L38 STR L33
 L39 STR L38
 L40 9 S L39 SAM SUB=L35
 L41 177 S L39 FUL SUB=L35
 SAV L41 SHIAO9304A/A
 L42 SCR 1918
 L43 84 S L42 FUL SUB=L41

SAV L43 SHIAO9304B/A
L44 19 S L43 AND C29H43O4P
L45 6 S L44 AND NA/ELS
L46 5 S L45 NOT MXS/CI
L47 13 S L44 NOT L45
L48 65 S L43 NOT L44
L49 21 S L30,L46 NOT MXS/CI
L50 22 S L29,L49
L51 11 S L32 NOT L50
L52 66 S L43 NOT L50
L53 67 S L51,L52
L54 89 S L41 NOT L43,L50,L53
L55 374 S L35 NOT L41,L50,L53,L54

FILE 'HCAPLUS' ENTERED AT 14:10:48 ON 18 OCT 2005

L56 453 S L50
L57 112 S L53
L58 63 S L54
L59 89 S L55
L60 213 S L13-L18 AND L56
L61 40 S L13-L18 AND L57
L62 5 S L13-L18 AND L58
L63 4 S L13-L18 AND L59
L64 232 S L60-L63
L65 143 S L64 AND (PY<=1999 OR PRY<=1999 OR AY<=1999)
L66 34 S L65 AND RESIN?
L67 137 S L65 AND PLASTIC?/SC, SX
L68 49 S L65 AND PLASTIC?/CW, CT
L69 34 S L66 AND L67, L68

FILE 'REGISTRY' ENTERED AT 14:14:37 ON 18 OCT 2005

L70 37 S L50,L53,L54,L55 AND NA/ELS
L71 6 S L70 AND C29H43O4P

FILE 'HCAPLUS' ENTERED AT 14:15:08 ON 18 OCT 2005

L72 412 S L71
L73 286 S L72 AND (PY<=1999 OR PRY<=1999 OR AY<=1999)
L74 62 S L73 AND RESIN?
L75 244 S L73 AND PLASTIC?/SC, SX, CW, CT
L76 59 S L74 AND L75
L77 67 S L1-L12 AND L72
L78 48 S L77 AND L73
L79 42 S L78 AND L74-L76
L80 88 S L76,L79
L81 85 S L80 AND P/DT
L82 11 S L81 AND US/PC, PRC, AC
L83 59 S L80 AND L74
L84 59 S L83 AND P/DT
L85 10 S L84 AND US/PC, PRC, AC
L86 15 S L1-L11 AND L73
L87 69 S L76,L86

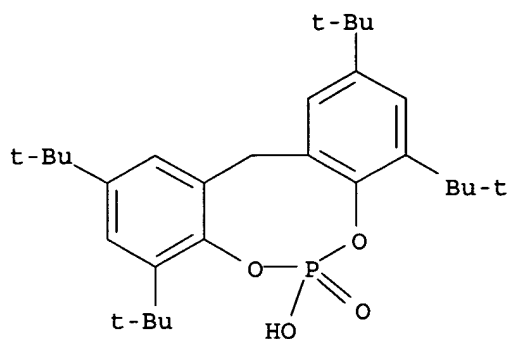
FILE 'REGISTRY' ENTERED AT 14:20:03 ON 18 OCT 2005

=> d ide can tot l71

L71 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN
RN 327029-72-1 REGISTRY
ED Entered STN: 14 Mar 2001
CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-

dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt, hydrate (2:5) (9CI) (CA
INDEX NAME)

MF C29 H43 O4 P . 5/2 H2 O . Na
SR CA
LC STN Files: CA, CAPLUS
CRN (106396-29-6)



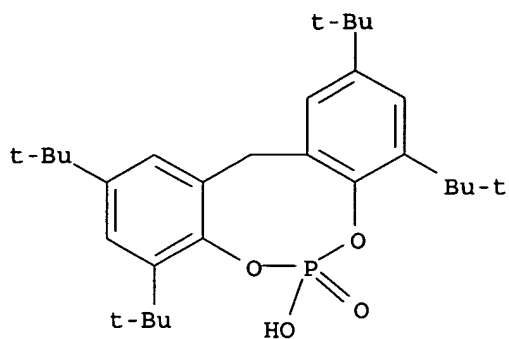
● Na

● 5/2 H₂O

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:194092

L71 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN
RN 327029-71-0 REGISTRY
ED Entered STN: 14 Mar 2001
CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-
dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt, monohydrate (9CI) (CA
INDEX NAME)
MF C29 H43 O4 P . H2 O . Na
SR CA
LC STN Files: CA, CAPLUS
CRN (106396-29-6)



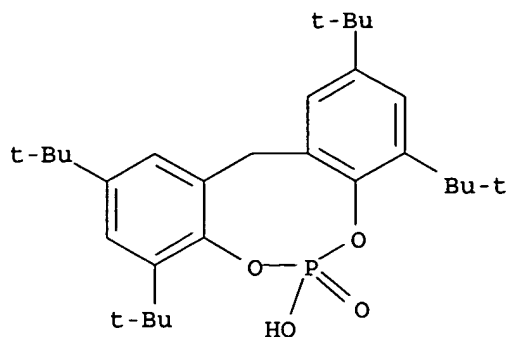
● Na

● H₂O

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:194092

L71 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN
RN 170020-82-3 REGISTRY
ED Entered STN: 10 Nov 1995
CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt, dihydrate (9CI) (CA INDEX NAME)
MF C₂₉ H₄₃ O₄ P . 2 H₂ O . Na
SR CA
LC STN Files: CA, CAPLUS
CRN (106396-29-6)



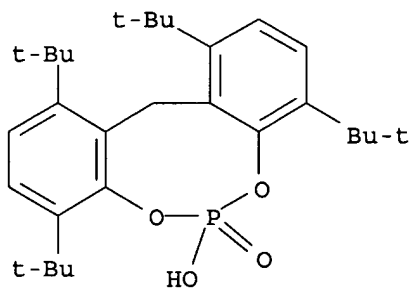
● Na

● 2 H₂O

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 123:301507

L71 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN
RN 151367-62-3 REGISTRY
ED Entered STN: 19 Nov 1993
CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 1,4,8,11-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)
MF C₂₉ H₄₃ O₄ P . Na
SR CA
LC STN Files: CA, CAPLUS
CRN (698969-74-3)



● Na

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 124:234000

REFERENCE 2: 119:251812

L71 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 146106-41-4 REGISTRY
 ED Entered STN: 24 Feb 1993
 CN Silicic acid, magnesium salt, mixt. with 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-12H-dibenzo[d,g][1,3,2]dioxaphosphocin 6-oxide sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt, mixt. contg. (9CI)

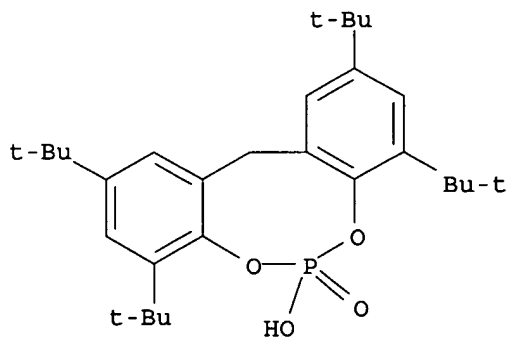
OTHER NAMES:

CN ADK-ARKLS F 85
 MF C29 H43 O4 P . Na . Unspecified
 CI MXS
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 85209-91-2 (106396-29-6)

CMF C29 H43 O4 P . Na



● Na

CM 2

CRN 1343-88-0
 CMF Unspecified
 CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 6 REFERENCES IN FILE CA (1907 TO DATE)
 6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:454365

REFERENCE 2: 136:12858

REFERENCE 3: 124:101894

REFERENCE 4: 118:244639

REFERENCE 5: 118:202139

REFERENCE 6: 118:113226

L71 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN

RN 85209-91-2 REGISTRY

ED Entered STN: 16 Nov 1984

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2,2'-Methylenebis(4,6-di-tert-butylphenol) phosphate sodium salt

CN ADK 11

CN ADK Stab NA 11

CN ADK Stab NA 11SF

CN ADK Stab NA 11UF

CN ADK Stab NA 11UH

CN ADK Stab NA 11UY

CN Amfine NA 11

CN Mark NA 11

CN Mark NA 11UF

CN NA 11

CN NA 11UF

CN NA 11UH

CN NA 11UY

CN NA 40

CN NA 40 (nucleating agent)

CN Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate

DR 104149-35-1, 118569-25-8

MF C29 H43 O4 P . Na

CI COM

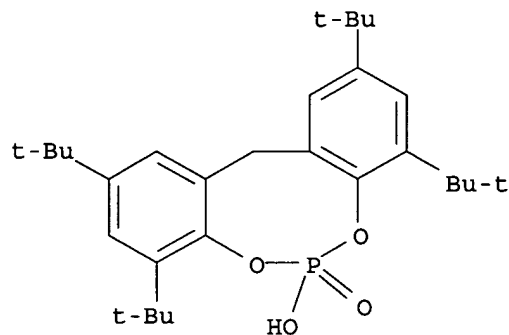
SR European Union (EU)

LC STN Files: BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CBNB, CHEMLIST, CIN, PROMT, TOXCENTER, USPAT2, USPATFULL

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

CRN (106396-29-6)



● Na

404 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

404 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:307083
REFERENCE 2: 143:287244
REFERENCE 3: 143:287104
REFERENCE 4: 143:270967
REFERENCE 5: 143:252454
REFERENCE 6: 143:231217
REFERENCE 7: 143:231091
REFERENCE 8: 143:174018
REFERENCE 9: 143:173662
REFERENCE 10: 143:116673

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FILE COVERS 1907 - 18 Oct 2005 VOL 143 ISS 17
FILE LAST UPDATED: 17 Oct 2005 (20051017/ED)

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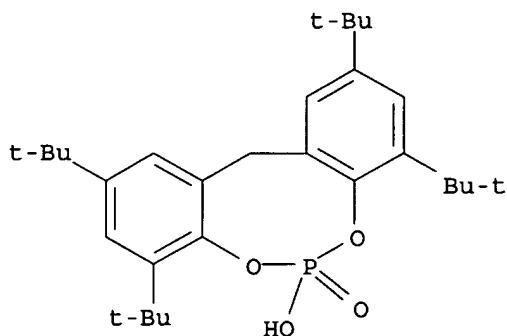
This file contains CAS Registry Numbers for easy and accurate substance identification.

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✓ L87 ANSWER 1 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:845366 HCAPLUS
DN 142:23972
TI Polyamide resin composition
IN Lee, Byung Jin
PA Hyundai Motor Company, S. Korea
SO Repub. Korea, No pp. given
CODEN: KRXXFC
DT Patent
LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 158079	B1	19990115	KR 1995-29133	19950906 <--
PRAI	KR 1995-29133		19950906	<--	
AB	A polyamide resin composition is provided which has superior mech. strength and resistance against gasoline in the engine room. The polyamide resin composition, into which glass fiber and organic nucleating agent are added, comprises 25-60% glass fiber and 0.03-1.0% organic nucleating agent against 100% polyamide resin. The polyamide resin comprises 60-70% polyamide-6 resin having 2.2-2.8 relative viscosity, 20-30% polyamide-6 resin having 3.2-3.6 relative viscosity, and 3-10% polyamide-6,6 resin having 2.5-3.5 relative viscosity. The length of glass fiber is 3 mm and its diameter is 10-15 μ m. Sodium 2,2'-methylene bis(4,6-di-tert-butylphenyl)phosphate and sodium di(4-tertiary-butylphenyl)phosphate are the most suitable as the organic nucleating agents.				
IT	85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl)phosphate RL: MOA (Modifier or additive use); USES (Uses) (crystal nucleating agents; in polyamide gasoline-resistant composition useful for engine room)				
RN	85209-91-2 HCAPLUS				
CN	12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)				

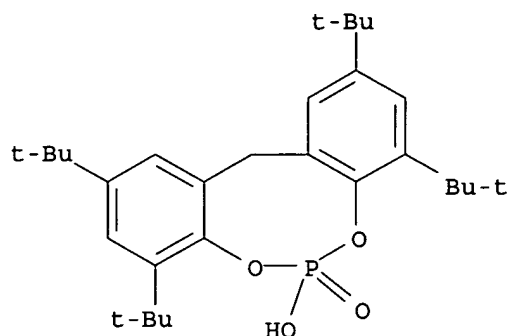


● Na

L87 ANSWER 2 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:820999 HCAPLUS
 DN 141:296788
 TI Resin composition for automobile delivery pipes
 IN Lee, Byung-Jin; Ko, Dong-Whee
 PA Kolon Ind. Inc., S. Korea; Hyundai Motor Company
 SO Repub. Korea, No pp. given
 CODEN: KRXXFC
 DT Patent
 LA Korean
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 187186	B1	19990515	KR 1994-12481	19940603 <--

PRAI KR 1994-12481 19940603 <--
 AB The compns., having reduced weight, good phys. properties, mech. strength and gasoline resistance, useful for fuel distribution pipe among peripheral components of automobile engine, comprise 100 parts nylon-6 resin or nylon-66 resin, 30-60 parts glass fiber and 0.01-0.5 parts phosphate-based nucleating agent, e.g., sodium di(4-tert-butylphenyl)phosphate or sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl)phosphate.
 IT 85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl)phosphate
 RL: MOA (Modifier or additive use); USES (Uses)
 (crystal nucleating agent; resin composition useful for automobile fuel distribution pipes)
 RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



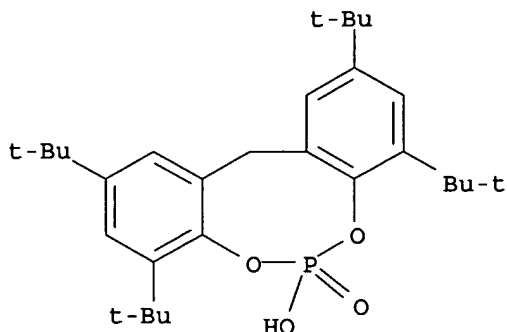
● Na

✓ L87 ANSWER 3 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2001:324490 HCAPLUS
 DN 134:327234
 TI Granular composite additives for polyolefins and their manufacture
 IN Takahashi, Masayuki; Kono, Toshinori; Takeuchi, Takashi
 PA Asahi Denka Kogyo K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001123021	A2	20010508	JP 1999-303821	19991026 <--
PRAI	JP 1999-303821		19991026 <--		

AB The additives comprise alkali metal 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphates dispersed in phenol antioxidant matrixes and optionally ≥ 1 other additives dispersed and/or dissolved in matrixes. Thus, 100 parts polypropylene (H 700) and 1 part pellets containing sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate 11, tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionyloxymethyl]methane 25, and tris(2,4-di-tert-butylphenyl) phosphite 49 parts showed Haze 31.3% and flexural modulus 1509 MPa.

IT 85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate
 RL: MOA (Modifier or additive use); USES (Uses)
 (manufacture granular composite additives for polyolefins)
 RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 4 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:270493 HCAPLUS

DN 134:296902

TI Propylene resin-based compositions for container lids with good moldability, and high rigidity and impact resistance

IN Kawai, Shigenobu; Okumura, Shogo; Kobayashi, Tatsuo

PA Nippon Polychemicals Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

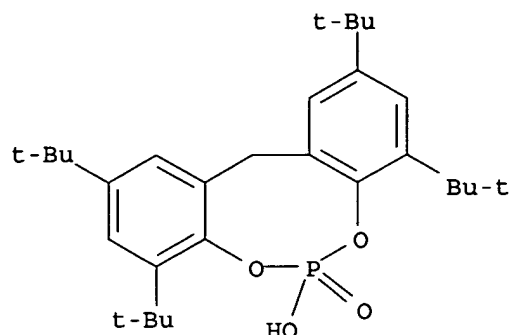
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001106843	A2	20010417	JP 1999-288857	19991008 <--
PRAI	JP 1999-288857		19991008	<--	

AB The title compns. comprise: (A) propylene-based resin 100, (B) one or two polymers 3.0-15, (C) a crystal nucleation agent 0.01-1, and (D) a TiO₂ pigment 0.1-7 parts, wherein B is either prepared by metallocene catalysts, have MFR 0.1-50 g/10 min, or is an ethylene-containing polymer having the highest peak temperature 15-85° from the high-temperature GPC elution curves. Thus, mixing and kneading the mixture of BC 3B (polypropylene) 100, Kernel KS 560 (a B polymer) 5, Tipaque CR 80 (TiO₂) 1.0, NA 11 (a C component) 0.2 parts and other necessary additives gave a title composition, which was molded to drinking container covers with good claimed properties.

IT 85209-91-2, 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt
 RL: MOA (Modifier or additive use); USES (Uses)
 (NA 11, crystal nucleating agent; propylene resin-based compns. for container lids with good moldability, rigidity and impact resistance)

RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 5 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:270492 HCAPLUS

DN 134:296901

TI Propylene resin-based compositions for container lids with good moldability, rigidity and impact resistance

IN Kawai, Shigenobu; Okumura, Shogo; Kobayashi, Tatsuo

PA Nippon Polychemicals Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001106842	A2	20010417	JP 1999-288856	19991008 <--
PRAI	JP 1999-288856		19991008	<--	

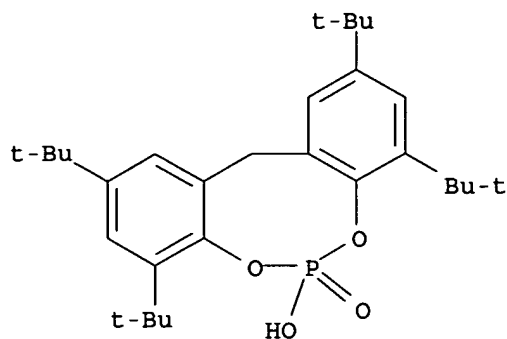
AB The title comps. comprise: (A) propylene-based resin 100, (B) fluoropolymer, having mol. weight 2,000,000-15,000,000, 0.05-3, (C) a crystal nucleation agent 0.01-1, and (D) a TiO₂ pigment 0.1-7 parts. Thus, mixing and kneading the mixture of BC 3B (polypropylene) 100, Fluon CD 1 (a PTFE powder having mol. weight 3,000,000) 0.05, Tipaque CR 80 (TiO₂) 1.0, NA 11 (a C component) 0.2 parts and other necessary additives gave a title composition, which was molded to drinking container covers with good claimed properties.

IT 85209-91-2, 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt
 RL: MOA (Modifier or additive use); USES (Uses)

(NA 11, crystal nucleating agent; propylene resin-based comps. for container lids with good moldability, rigidity and impact resistance)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 6 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:143692 HCAPLUS

DN 134:194136

TI Calixarene inclusion compound additives, their manufacture, and resin compositions containing them

IN Yang, Wu; Kanbara, Hajime; Osawa, Mika; Ueno, Yoko; Okoshi, Masayuki

PA Kansai Shingijutsu Kenkyusho K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 20 pp.

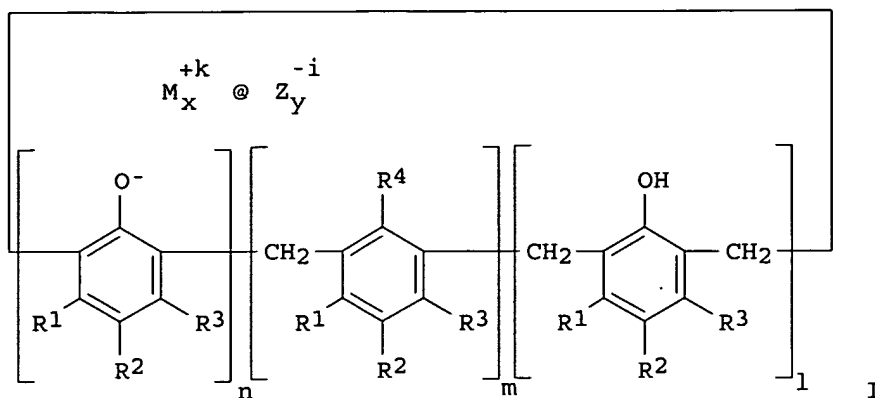
CODEN: JKXXAF

DT Patent

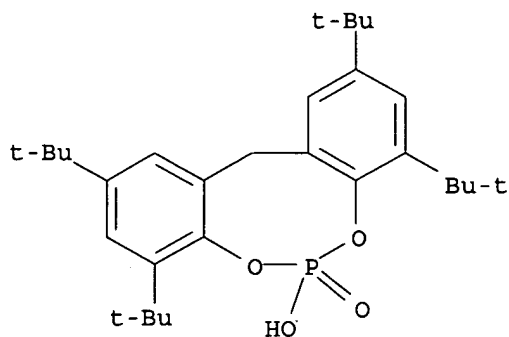
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001055469	A2	20010227	JP 1999-370178	19991227 <--
	WO 2001048072	A1	20010705	WO 2000-JP8599	20001205 <--
	W: CN, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	EP 1253168	A1	20021030	EP 2000-979094	20001205 <--
	EP 1253168	B1	20050323		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
	US 2003057406	A1	20030327	US 2002-168970	20021015 <--
PRAI	JP 1999-164093	A	19990610	<--	<--
	JP 1999-370178	A	19991227	<--	<--
	WO 2000-JP8599	W	20001205		
OS	MARPAT 134:194136				
GI					



- AB The additives comprising functional compds. dispersed in solid calixarenes I (R1, R2, R3 = H, (un)substituted (un)saturated alkyl, (un)substituted alkoxy, aryl, halo, nitro, etc.; R4 = (un)substituted (un)saturated alkyl, (un)substituted aryl, acyl; l, m, n, x, y = 0-10; l + m + n = 4-10; M+k = metal ion, NH₄⁺, organic cation; Z-i = anion; i, k = 1-6; x + k = i + y + n) are manufactured Thus, 4-tert-butylcalix[6]arene was mixed with KOH and tetrasodium copper(II) phthalocyaninetetrasulfonate in an aqueous medium, precipitated, and blended with polypropylene to give a composition showing good dispersibility, blue color, and crystallization temperature increase 13°.
- IT 85209-91-2DP, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate, inclusion compds. with 4-tert-butylcalix[6]arene
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (crystal nucleating agent; manufacture of calixarene inclusion compds. for resin additives)
- RN 85209-91-2 HCAPLUS
- CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)

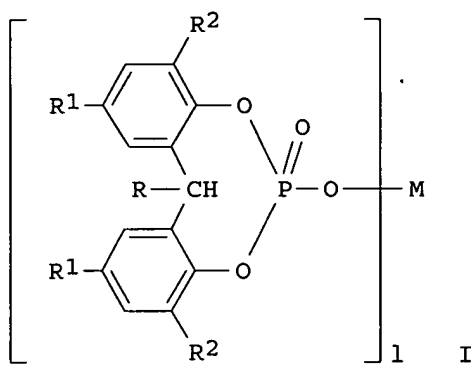


● Na

L87 ANSWER 7 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2001:40173 HCAPLUS

DN 134:101667
 TI Fire-resistant polycarbonate-based synthetic resin compositions
 IN Negishi, Yoshinori; Yukitake, Hideaki; Kimura, Ryoji
 PA Asahi Denka Kogyo K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

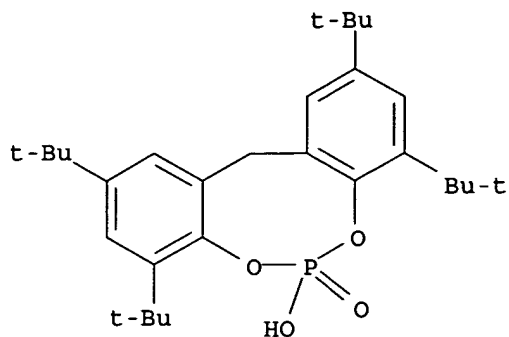
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001011297	A2	20010116	JP 1999-186675	19990630 <--
PRAI	JP 1999-186675		19990630	<--	
OS	MARPAT 134:101667				
GI					



AB Title compns. comprise polycarbonates, phosphate fire retardants, compds. represented by the general formula I, and optionally styrenic resins, where R = H or C1-8 alkyl, R1, R2 = C1-8 alkyl, l = 1 or 2, and M = alkali metal, alkaline earth metal, or hydroxyaluminum. Thus, a composition comprising Iupilon E 2000F 100, (PhO)2P(:O)[O-m-C6H4-OP(:O)(OPh)]nOPh 5, and I (R = H, R1-2 = tert-Bu, l = 1, M = Na) 0.2 parts showed no bleed out and UL-94 flame-extinguishing time 0.0 s.

IT 85209-91-2
 RL: MOA (Modifier or additive use); USES (Uses)
 (auxiliary fire retardant; fire-resistant polycarbonate-based synthetic resin compns.)

RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

✓
 L87 ANSWER 8 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:900712 HCAPLUS
 DN 134:57503
 TI Aromatic metal phosphorate nucleating agent
 IN Takahashi, Masayuki; Haruna, Tohru
 PA Asahi Denka Kogyo K.K., Japan; Takahashi, Yuko
 SO PCT Int. Appl., 25 pp.
 CODEN: PIXXD2

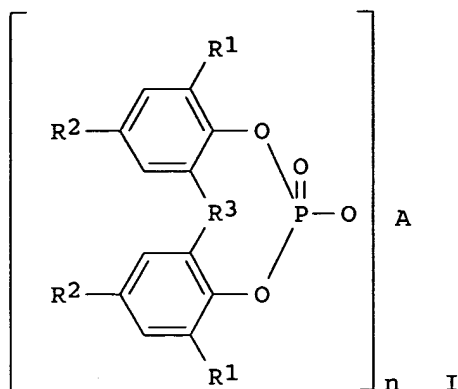
DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000077086	A1	20001221	WO 2000-JP3912	20000615 <--
	W: KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	JP 2001059040	A2	20010306	JP 2000-179856	20000615 <--
	EP 1209190	A1	20020529	EP 2000-937253	20000615 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
PRAI	JP 1999-168864	A	19990615	<--	
	WO 2000-JP3912	W	20000615	<--	

GI

Self



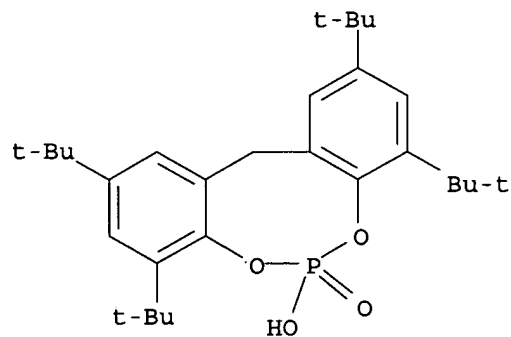
AB The agent is an aromatic phosphoric ester metal salt having a formula of I (R1 = C4-8 alkyl; R2 = H, C1-8 alkyl; R3 = C1-4 alkylidene; A = a metal having a valent of n; n = 1-2) having an average diameter on the longitudinal direction of ≤ 10 μ m, an average aspect ratio of ≤ 10 , and a bulk sp. gr. of ≥ 0.1 . It has excellent handle-ability in incorporation into **resins**, and is highly effective in improving the transparency and mech. strength of the **resins**. Thus, reaction of 3 mol 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate and 3 mol NaOH in 300 g H₂O and 292 g MeOH, drying, and grinding gave I (R1-2 = tert-C₄H₉; R3 = CH₂; A = Na⁺; n = 1).

IT **85209-91-2P**

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(aromatic metal phosphorate nucleating agent)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Asahi Denka Kogyo K K	1994			JP 06299014 A	HCAPLUS

Chisso Corp			JP 63037148 A	HCAPLUS
Chisso Corp	1988		EP 255693 A	HCAPLUS
Chisso Corporation	1992		JP 04270753 A	HCAPLUS
Chisso Corporation	1998		JP 10251458 A	HCAPLUS
Dainippon Ink And Chemi	1996		JP 881592 A	
Mitsui Chemicals Ltd	1999		JP 1112429 A	
Tonen Chemical Corp	1998		JP 1053673 A	

✓ L87 ANSWER 9 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:887715 HCAPLUS

DN 134:30264

TI Crystalline propylene polymer compositions and their moldings

IN Azuma, Yasushi; Tsujita, Koji; Tamura, Satoshi; Obata, Hiroshi; Ohnishi, Satoshi

PA Idemitsu Petrochemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000351878	A2	20001219	JP 1999-163942	19990610 <--
PRAI	JP 1999-163942		19990610	<--	

AB The compns. contain (A) crystalline propylene polymers satisfying the relation $\alpha \leq 1.11 + [\eta] - 0.42 + 1.40 [\alpha (\%) = \text{content}]$

of soluble components measured at 0° by temperature-rising elution

fractionation; $[\eta]$ (dL/g) = intrinsic viscosity in tetralin at

135° and (B) crystal nucleating agents. Thus, propylene was

prepolymd. and polymerized in the presence of solid catalyst components

[prepared from Mg(OEt)₂, SiCl₄, di-Bu phthalate, and TiCl₄], Et₃Al, and

diisopentyldimethoxysilane to give polypropylene powder, 100 parts of

which was kneaded with 0.2 part hydroxyaluminum bis(p-tert-butyl)benzoate

and additives and injection-molded to give test pieces showing content of

soluble components (at 0°) 1.19%, $[\eta]$ 0.79, tensile modulus 2270

MPa, flexural modulus 2190 MPa, Rockwell hardness 117, and haze 80%.

IT 85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl)phosphate

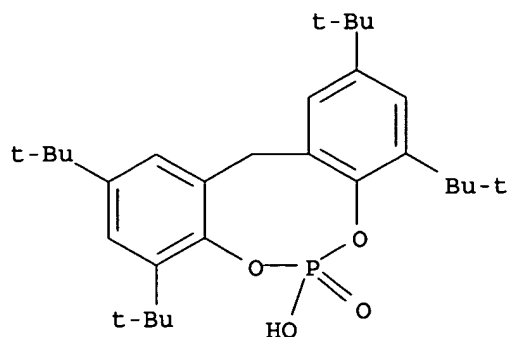
RL: MOA (Modifier or additive use); USES (Uses)

(nucleating agent; crystalline propylene polymer compns. containing nucleating

agents for moldings with good mech. properties)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 10 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:851278 HCAPLUS
 DN 134:18123
 TI Polypropylene-type resin blend compositions having high melt
 tension
 IN Iwashita, Toshiyuki; Kinoshita, Tasuke
 PA Nippon Polyolefin K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000336217	A2	20001205	JP 1999-147300	19990526 <--
PRAI	JP 1999-147300		19990526	<--	

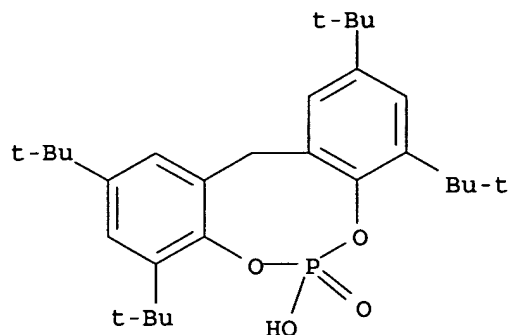
AB The compns. contain (A) 20-97 parts polypropylenes having MFR 0.01-300 g/10 min and satisfying $PI \geq 4.0$ [$PI = 105$ -folds of the reciprocal number of dynamic storage modulus (unit; Pa) of the intersecting point G_c of $G'(\omega)$ and $G''(\omega)$; $G'(\omega)$ and $G''(\omega) =$ dependency curves of dynamic storage modulus and loss modulus at frequency ω , resp.] and isotactic pentad ratio (IP) ≥ 0.98 and (B) 3-80 parts polypropylenes prepared by irradiating ionized radiation on polypropylenes having MFR < 5 g/10 min and $IP \geq 0.0428 + \log(MFR) + 0.965$.

The compns. may contain nucleating agents 0.001-20 parts per 100 parts of the resins. Thus, 80 parts polypropylene having MFR 0.48 g/10 min, weight-average mol. weight $4.22 + 105$, PI 4.8, and IP 0.985, 20 parts γ -ray-irradiated polypropylene having MFR (after irradiation) 5.4 g/10 min and IP 0.944, and 0.03 part tris(2,4-di-tert-butylphenyl)phosphite were blended, kneaded at 210° , and pelletized to give pellets with MFR 0.81 g/10 min and melt tension 14 g, which was vacuum-formed to give a molding having good appearance.

IT 85209-91-2, ADK Stab NA 11
 RL: MOA (Modifier or additive use); USES (Uses)
 (nucleating agents; blends of polypropylenes having sp. dynamic viscoelastic indexes and ionized radiation-treated polypropylenes having high melt tension)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

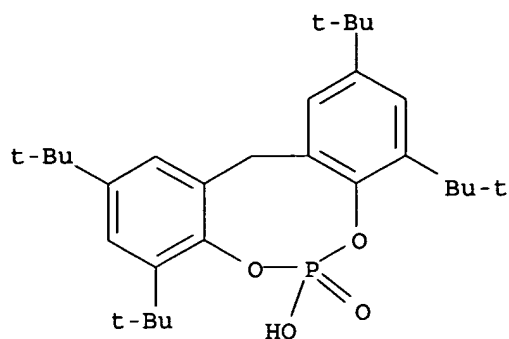
L87 ANSWER 11 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:830413 HCAPLUS
 DN 134:18099
 TI Propylenic resin and blow molded automobile parts
 IN Nakamura, Tetsuya; Tsubokawa, Masaya
 PA Idemitsu Petrochemical Co., Ltd., Japan
 SO U.S., 9 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6153715	A	20001128	US 1998-154732	19980917 <--
PRAI	US 1998-154732		19980917 <--		

AB A propylene resin composition for bumpers, seat back, instrument panel, etc., is composed of a nucleating agent and a propylene resin having a melt index (MI) ≤ 1.2 g/10 min and satisfying the relation between elongational viscosity (ηE) and melt index (MI) represented by $2.0 + 105 + MI - 0.68 \geq \eta E \geq 1.5 + 105MI + MI - 0.68$. An example nucleating agent was sodium methylenebis(2,4-di-tert-butylphenyl)phosphate.

IT 85209-91-2
 RL: MOA (Modifier or additive use); USES (Uses)
 (nucleating agent; propylene resin blow molded automobile parts having rigidity, lightness, heat resistance, and drawdown resistance)

RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Fujita	1994			US 5331054	HCAPLUS
Kijima	1998			US 5736613	HCAPLUS

✓ L87 ANSWER 12 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:762031 HCAPLUS

DN 133:336000

TI Colored polymer compositions with excellent dimensional stability

IN **Takahashi, Masayuki**; Yoshikawa, Kazumi; Takeuchi, Takashi

PA Asahi Denka Kogyo K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

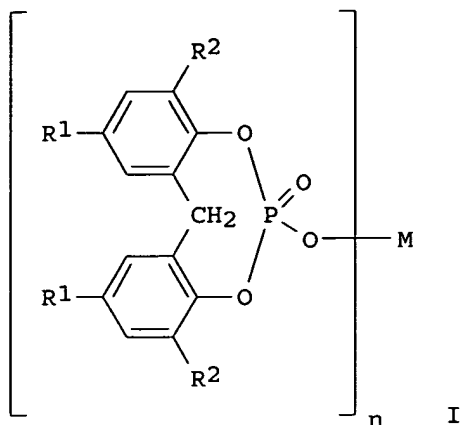
CODEN: JKXXAF

DT Patent

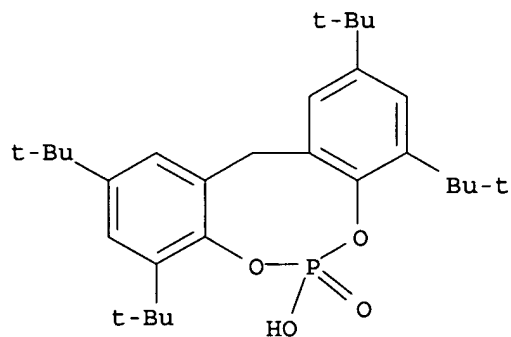
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000302986	A2	20001031	JP 1999-110526	19990419 <--
PRAI	JP 1999-110526		19990419	<--	
OS	MARPAT 133:336000				
GI					



- AB The comps. contain crystalline polymers, I (R1, R2 = C1-8 alkyl; n = 1, 2; M = alkali metal if n = 1; M = alkaline earth metal or hydroxyaluminum if n = 2), pigments, and pigment dispersants comprising metal salts of C8-30. alkyl-containing mono- or dialkyl phosphates. Thus, a test piece containing Profax 6501 (polypropylene) 100, 2,2'-methylenebis(4,6-di-tert-butylphenol) phosphate Na salt 0.1, phthalocyanine blue 2, and a 1:1 (mol) Zn monostearyl phosphate-Zn distearyl phosphate mixture 0.3 part showed warpage 1.2 mm and flexural modulus 1760 MPa.
- IT **85209-91-2**, 2,2'-Methylenebis(4,6-di-tert-butylphenol) phosphate sodium salt
 RL: MOA (Modifier or additive use); USES (Uses)
 (nucleating agent; cyclic phosphate metal salt-containing colored polymer comps. with good dimensional stability)
- RN 85209-91-2 HCAPLUS
- CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

- L87 ANSWER 13 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:267242 HCAPLUS
 DN 132:298873
 TI Propylene resin compositions for manufacturing medical

instruments

IN Asanuma, Tadashi; Wada, Isao
 PA Grand Polymer K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000119461	A2	20000425	JP 1998-298191	19981020 <--
PRAI	JP 1998-298191		19981020 <--		

OS MARPAT 132:298873

AB Propylene resin compns. for manufacturing medical instruments or medical goods [e.g. blood bags] showing excellent transparency, rigidity and thermostability comprise: [a] propylene polymer (having MFR of 4-20 g/10min) 100, [b] phosphate antioxidants 0.05-0.5, [c] amine antioxidants 0.01-0.3 and [d] specific organophosphate ester-type compds. 0.1-1.0 weight parts.

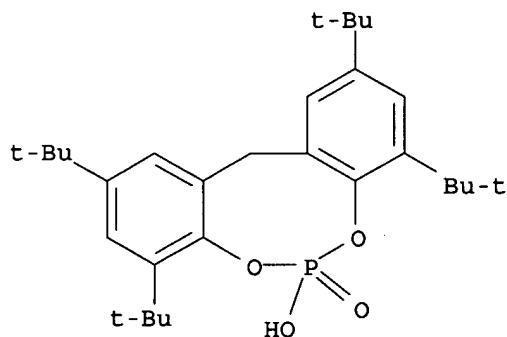
IT 85209-91-2

RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(propylene resin compns. for manufacturing medical instruments)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g] [1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 14 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:252104 HCAPLUS

DN 132:266253

TI Propylene polymer-type resin compositions having excellent surface hardness and impact resistance and their injection moldings

IN Mori, Akiji; Yoshii, Koji; Ishimoto, Akio

PA Grand Polymer K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2000109637 A2 20000418 JP 1998-282102 19981005 <--
 PRAI JP 1998-282102 19981005 <--

AB The compns. comprise (A) 10-94 parts propylene (I) block copolymers, (B) 0-70 parts I homopolymer or I random copolymers with MFR (230°, 2.16-kg load) 0.1-200 g/10 min, (C) 5-30 parts ethylenic copolymer compns. prepared by melting and mixing (C-1) ethylenic polymers with MFR 0.01-50 g/10 min and Tc > 1920d. - 1620 (Tc = temperature of exothermic peak by DSC) 100, (C-2) vinylsilane-modified inorg. fine particles 5-20, (C-3) crosslinking agents 0.01-1, (C-4) crosslinking aids 0.01-1, and (C-5) nucleating agents 0-5 parts, (D) 0-20 parts flake-type inorg. fillers, and (E) 1-25 parts SiO2 fine particles. The injection moldings, especially suitable

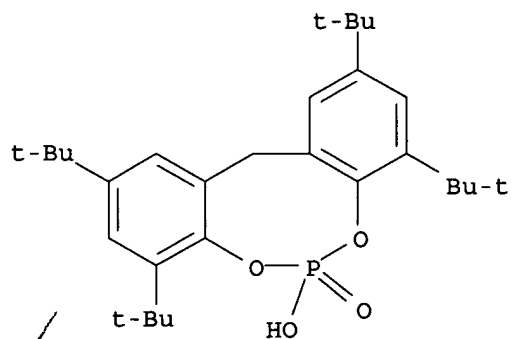
for parts of automobile exteriors and household electronic appliances. Thus, 100 parts of an ethylenic polymer with d. 0.885, Tm 38.2°, Tc 114.3°, and MFR 8 g/10 min, prepared by kneading 66 parts ethylene-1-butene copolymer (d. 0.86, MFR 7 g/10 min) with 24 parts polyethylene (d. 0.96) at 230°, was kneaded with SiO2 (Aerosil RX 200) surface-modified with vinylsilane 10, 2,5-dimethyl-2,5-di(tert-butylperoxy)hexane 0.05, divinylbenzene 0.15, and Na 2,2'-methylenebis(4,6-di-tert-butylphenyl)phosphate 1 part at 230° to give a composition It (13 parts) was kneaded with 38:62 (mol) ethylene-I block copolymer 40, I homopolymer 27, talc (Micel-Tone) 10, and SiO2 (Aerosil R 972) 10 parts at 230° to give a composition, which was injection-molded to give test pieces exhibiting flexural modulus 2200 MPa, notched Izod impact strength 300 J/m, Rockwell hardness 87, pencil hardness HB, and heat distortion temperature 141°.

IT 85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl)phosphate

RL: MOA (Modifier or additive use); USES (Uses)
 (nucleating agents; in propylene polymer-type resin compns. having excellent surface hardness and impact resistance and their injection moldings)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)

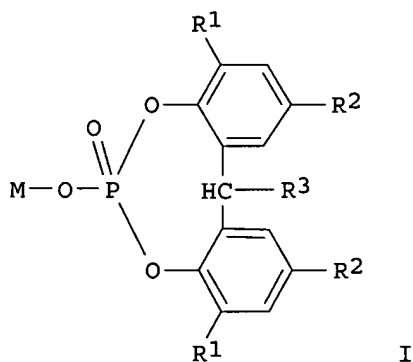


● Na

L87 ANSWER 15 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:137388 HCAPLUS
 DN 132:181460

TI Crystalline polymer material compositions containing alkylidenebisphenol cyclic phosphate metal salts
 IN Takahashi, Masayuki; Tobita, Etsuo
 PA Asahi Denka Kogyo K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000063595	A2	20000229	JP 1998-235540	19980821 <--
	US 6184275	B1	20010206	US 1999-373573	<u>19990813</u> <--
	KR 2000017413	A	20000325	KR 1999-34540	19990820 <--
	EP 982357	A2	20000301	EP 1999-116173	19990823 <--
	EP 982357	A3	20000531		
	EP 982357	B1	20040519		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	ES 2218910	T3	20041116	ES 1999-116173	19990823 <--
PRAI	JP 1998-235540	A	19980821	<--	
OS	MARPAT 132:181460				
GI					

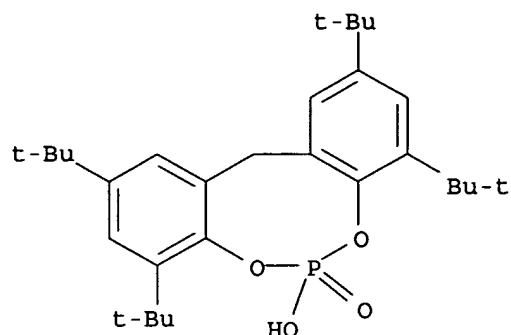


AB The compns. contain alkylidenebisphenol cyclic phosphate metal salts I (R1, R2 = C1-9 alkyl; R3 = H, C1-4 alkyl; M = alkali metal) with Cl content ≤ 500 ppm 0.005-5 parts for 100 parts crystalline polymer materials. The compns. have good surface appearances, free from void formation, and excellent hardness and transparency and are suitable for food and medical packagings. Thus, polypropylene (Profax) 100, Ca stearate 0.005, tetrakis[methylene- β -(3,5-di-tert-butyl-4-hydroxyphenyl) propionate]methane 0.1, and I (R1, R2 = tert-Bu, R3 = H, M = Na; Cl content 165 ppm) 0.1 part were kneaded at 180°, compression-molded at 250°, quenched to 60° to give a sheet, and biaxially drawn to give a film with good appearance and free from void.

IT 85209-91-2

RL: MOA (Modifier or additive use); USES (Uses)
 (crystalline polymer material compns. containing alkylidenebisphenol cyclic phosphate metal salts as nucleating agents and having good transparency and appearances free from voids)

RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 16 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AM 1999:819427 HCAPLUS

PN 132:64952

TI Preparation of propylene polymer and composition with transparency, flexibility, and melt flowability

IN Minami, Yutaka; Kijima, Masato; Okamoto, Takuji; Seta, Yasushi; Mogi, Yasuhiro; Ota, Tsuyoshi; Funabashi, Hideo; Kashiwamura, Takashi; Tani, Noriyuki; Kanamaru, Masami; Kakigami, Koji

PA Idemitsu Petrochemical Co., Ltd., Japan; et al.

SO PCT Int. Appl., 345 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9967303	A1	19991229	WO 1999-JP3405	19990625 <--
	W: US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	JP 11166084	A2	19990622	JP 1998-239872	19980826 <--
	JP 11302474	A2	19991102	JP 1998-302892	19981023 <--
	JP 2000095820	A2	20000404	JP 1999-55025	19990303 <--
	JP 2000281723	A2	20001010	JP 1999-86491	19990329 <--
	EP 1095951	A1	20010502	EP 1999-926823	19990625 <--
	R: DE				
	JP 2000344833	A2	20001212	JP 1999-284607	19991005 <--
	JP 2000355612	A2	20001226	JP 1999-284606	19991005 <--
	US 6906155	B1	<u>20050614</u>	US <u>2001-719552</u>	20010228 <--
	US-2005043495	A1	20050224	US 2004-855964	20040528 <--
PRAI	JP 1998-179252	A	19980625	<--	
	JP 1998-210115	A	19980724	<--	
	JP 1998-239872	A	19980826	<--	
	JP 1998-302892	A	19981023	<--	
	JP 1999-283	A	19990105	<--	
	JP 1999-55025	A	19990303	<--	

JP 1999-79694 A 19990324 <--
 JP 1999-86491 A 19990329 <--
 JP 1999-93420 A 19990331 <--
 JP 1999-103996 A 19990412 <--
 JP 1997-230611 A 19970827 <--
 JP 1998-39960 A 19980223 <--
 WO 1999-JP3405 W 19990625 <--
 US 2001-719552 A3 20010228

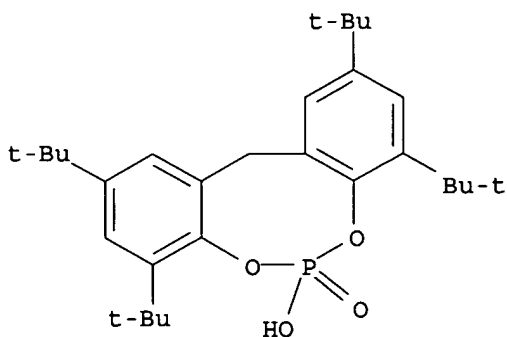
OS MARPAT 132:64952

AB Title composition, useful as substitute for flexible vinyl chloride resin, comprises (A) a propylene homopolymer or a copolymer of propylene with ethylene and/or C4-40 α -olefin, which has isotactic pentad fraction (mmmm fraction) 30-80 mol% or stereoregular index (P) 55-90 mol%, mol. weight distribution (Mw/Mn) <3.5, and intrinsic viscosity $[\eta]$ 0.8-5 dL/g, and is polymerized in the presence of a metallocene catalyst, and optionally (B) a nucleating agent >10 ppm. Thus, polypropylene with mmmm fraction = 63.5 mol%, $[\eta]$ = 1.2 dL/g, and Mw/Mn = 1.8 was prepared in the presence of triisobutylaluminum, methylaluminoxane, and (1,2'-ethylene)(2,1'-ethylene)-bis(3-methylindenyl)zirconium dichloride, to give a press-molded test piece with good transparency, internal Haze 14, and tensile modulus 250 MPa.

IT 85209-91-2, ADK Stab NA 11
 RL: MOA (Modifier or additive use); USES (Uses)
 (nucleating agent for preparation of propylene polymer composition)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon				EP 574258 A2	HCAPLUS
Anon				US 5747621 A	HCAPLUS
Anon				DE 69316271 E	
Anon				EP 719802 A2	HCAPLUS
Anon				EP 745099 A1	HCAPLUS
Anon				WO 9620225 A2	HCAPLUS
Anon				WO 9744389 A1	HCAPLUS
Anon				WO 9842757 A1	HCAPLUS
Chisso Corp	1993			JP 05-112611 A	HCAPLUS

Hoechst AG	1996	JP 08-231640 A	HCAPLUS
Idemitsu Kosan Co, Ltd	1995	JP 07-102013 A	HCAPLUS
Idemitsu Kosan Co, Ltd	1996	JP 08-20605 A	HCAPLUS
Idemitsu Kosan Co, Ltd	1998	JP 10-259207 A	HCAPLUS
Idemitsu Petrochemical	1999	JP 11-1584 A	HCAPLUS
Mitsubishi Petrochemica	1994	JP 06-100613 A	HCAPLUS
Montell Technology Comp	1997	JP 09-509982 A	HCAPLUS
Sumitomo Chemical Co, L	1997	JP 09-309982 A	HCAPLUS

✓ L87 ANSWER 17 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:804363 HCAPLUS

DN 132:50712

TI Colored synthetic resin composition for injection molding

IN Takahashi, Masayuki; Kono, Toshinori; Takeuchi, Takashi

PA Asahi Denka Kogyo K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

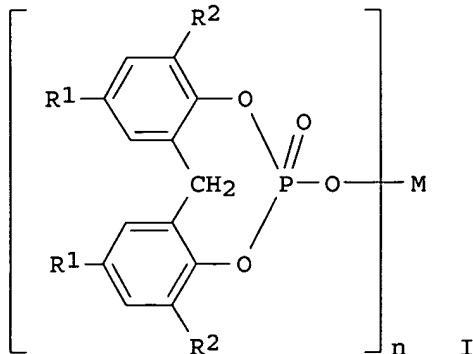
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11349740	A2	19991221	JP 1998-163906	19980611 <--
PRAI	JP 1998-163906		19980611	<--	
OS	MARPAT 132:50712				
GI					



Signature

AB The title compns. are realized by adding 0.005-5 parts I (R1, R2 = C1-8 alkyl; n = 1, 2; when n = 1, M = alkali metal and when n = 2, alkaline earth metal or AlOH) and 0.02-20 parts coloring agent selected from iron oxide pigments, azo pigments, and phthalocyanine pigments to 100 parts crystalline polymer. The composition has good processing stability and rigidity, and low deformation. A composition contained Profax 6501, phthalocyanine blue, and II.

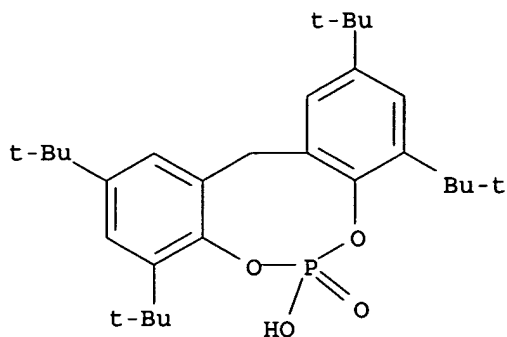
IT 85209-91-2

RL: MOA (Modifier or additive use); USES (Uses)

(colored synthetic resin composition for injection molding)

RN 85209-91-2 HCAPLUS

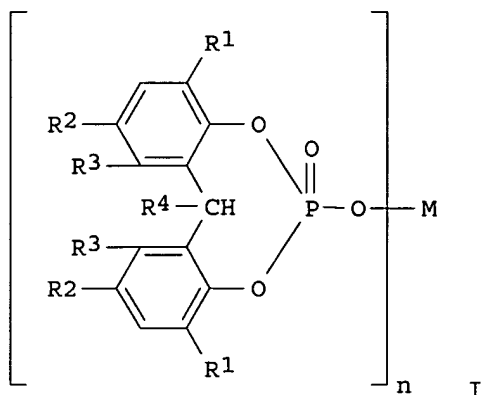
CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

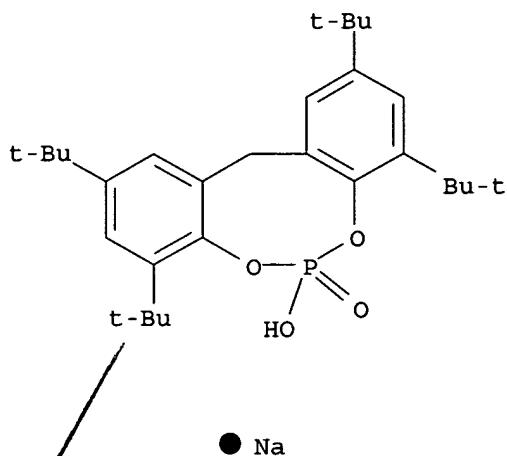
✓ L87 ANSWER 18 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1999:772656 HCAPLUS
 DN 132:13169
 TI Aqueous resin compositions for antibacterial coating formation
 IN Nakata, Tadahiyo; Kimura, Ryoji
 PA Asahi Denka Kogyo K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 13 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11335504	A2	19991207	JP 1998-141863	19980522 <--
PRAI	JP 1998-141863		19980522	<--	
OS	MARPAT 132:13169				
GI					



AB Title comps. comprise 2-90 weight% of solid resin including 1-85 weight% of a polyurethane resin and 1-85 weight% of an acrylic resin and 0.001-10 parts (based on 100 parts of solid resin) of cyclic organic phosphoric acid ester I (R1-3 = H, C1-18

alkyl; R4 = H, Me; n = 1, 2; M = H, alkali metal, alkali earth metal, Zn).
 IT 85209-91-2
 RL: MOA (Modifier or additive use); USES (Uses)
 (aqueous resin compns. for antibacterial coating formation)
 RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



L87 ANSWER 19 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1999:708474 HCAPLUS
 DN 131:323416
 TI Propylene-based resin composition for injection molded parts
 IN Sobajima, Yoshihiro; Hayakawa, Yuu; Banno, Yoshihiro
 PA Japan Polychem Corporation, Japan
 SO Eur. Pat. Appl., 13 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 953602	A1	19991103	EP 1999-107498	19990430 <--
	EP 953602	B1	20031001		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 11315186	A2	19991116	JP 1998-137589	19980501 <--
	JP 3347289	B2	20021120		
	CN 1234412	A	19991110	CN 1999-105868	19990429 <--
	CN 1125128	B	20031022		
	TW 514654	B	20021221	TW 1999-88107061	19990430 <--
PRAI	JP 1998-137589	A	19980501	<--	

AB The title composition that exhibits excellent processability, well-balanced mech. properties (high rigidity, impact strength and surface hardness), excellent weather resistance, is suitable for a variety of members for industrial devices, and interior members for automobiles. The title composition comprises (a) 100 parts propylene/ethylene block copolymer (I) comprising 60-78% of a crystalline polypropylene homopolymer portion (A) and 22-40% ethylene/propylene random copolymer portion (B), containing 30-52% ethylene, and having a weight-average mol. weight (Mw) 230,000-600,000, the whole

composition (a) having a melt flow rate (MFR at 230° and 2.16 kg) 25-40 g/10 min and ≤100 gels of gel size ≥50 μm in a molded article, 25 cm² in area and 0.5 mm in thickness, (b) 1-8 parts ethylene/α-olefin copolymer rubber, containing 20-50% C4-8 α-olefin and having an MFR 0.5-15 g/10 min, (c) 0.01-2 parts hindered amine stabilizer compound having a mol. weight ≥450, (d) 0-2 parts nucleating agent, and (e) 0-6 parts talc having an average particle size 1.5-15 μm. Thus, a blend of I (75% A; 25% B; Mw 380,000; 32 gels; MFR 30) 100, 1-butene-ethylene copolymer rubber (metallocene catalyzed; MFR 4.0; d. 0.862 g/cm³) 4, and bis-2,2,6,6-tetramethyl-4-piperidyl sebacate 0.2 parts was pelletized and injection molded into test parts having MFR 28, bending modulus (JIS K 7203) 1080 MPa, notched Izod impact strength 32 kJ/m², Rockwell hardness 72, and good weather resistance.

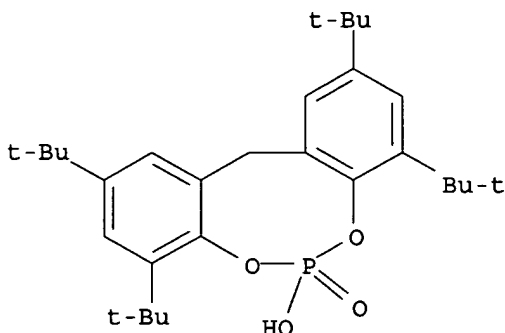
IT 85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl)phosphate

RL: MOA (Modifier or additive use); USES (Uses)

(nucleating agent; composition of ethylene-propylene block copolymer, ethylene rubber, stabilizers, nucleating agent and fillers with good balance of mech. properties for injection molded parts)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Japan Polychem Corp	1997			EP 0791630 A	HCAPLUS
Japan Polychem Corp	1997			GB 2309973 A	HCAPLUS
Japan Polychem Corp	1997			GB 2312426 A	HCAPLUS
Kohhei, U	1994			US 5354795 A	HCAPLUS

L87 ANSWER 20 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1999:631442 HCAPLUS
 DN 131:244150
 TI Propylene resin composition and stretched film produced therefrom
 IN Sezume, Tadashi; Nakamura, Yasunori
 PA Japan Polychem Corporation, Japan
 SO Eur. Pat. Appl., 18 pp.
 CODEN: EPXXDW

DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 945490	A2	19990929	EP 1999-302243	19990323 <--
	EP 945490	A3	19991222		
	EP 945490	B1	20020703		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CN 1233629	A	19991103	CN 1999-105634	19990324 <--
	JP 11335500	A2	19991207	JP 1999-80535	19990324 <--
	US 6143813	A	20001107	US 1999-275018	19990324 <--
PRAI	JP 1998-75661	A	19980324	<--	

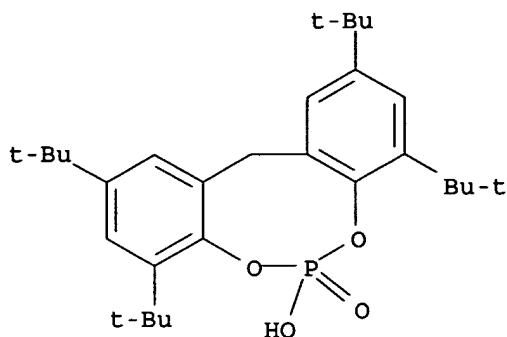
AB A propylene resin composition is disclosed comprising: a propylene- α -olefin random copolymer composed mainly of propylene, the propylene- α -olefin random copolymer satisfying the following copolymer property requirements (1) to (4); a nucleating agent which, when added to the propylene- α -olefin random copolymer, can bring the isothermal crystallization time [B] at 115° of the copolymer to a value satisfying the following requirements [I] and [II]; and 0.01-1 parts, based on 100 parts by weight of the propylene- α -olefin random copolymer, of spherical magnesium silicate particles having an average particle diameter of 0.5 to 7.0 μ m and a sphericity (f) of not less than 0.7: (i) copolymer property requirements (1) the melt flow rate of 1.0 to 20.0 g/10 min, (2) the melting peak temperature of 130-150° as determined by DSC, (3) the extraction of not more than 4.0% by weight as measured at 40°C using o-dichlorobenzene as a solvent, and (4) polydispersity 1.5-7.0; and (ii) isothermal crystallization time at 115°C $50 \leq [A] - [B] \leq 500$ [B] ≤ 100 wherein [A] represents the isothermal crystallization time (sec) at 115° of the propylene- α -olefin random copolymer with the nucleating agent not added thereto as measured with DSC; and [B] represents the isothermal crystallization time. There is also provided a stretched film produced by forming the propylene resin composition into a sheet or a film and at least monoaxially stretching the sheet or film.

IT 85209-91-2

RL: MOA (Modifier or additive use); USES (Uses)
 (propylene resin composition and stretched film produced therefrom)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g] [1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 21 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:421055 HCAPLUS

DN 131:88821

TI Propylene polymer compositions for toilet parts with good resistance to warp and discoloration

IN Kawai, Shigenobu; Osegaki, Kimio; Uchida, Masaru

PA Nippon Polychemicals Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11181182	A2	19990706	JP 1997-357546	19971225 <--
PRAI	JP 1997-357546		19971225 <--		

AB The compns., useful for toilet seats, seat covers, water spray nozzles, tanks, etc., contain (a) highly crystalline propylene polymers showing isotactic pentad fraction $\geq 96\%$ and (b) nucleating agents and show melt flow index (MFR) 0.5-100 g/10 min, memory effect (ME) 0.90-1.30, and crystallization initiation temperature 125-136°. Thus, a test piece comprising highly crystalline polypropylene (isotactic pentad fraction 97%, MFR 8 g/10 min) 100, pentaerythrityl tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] 0.1, tris(2,4-di-tert-butylphenyl) phosphite 0.1, Ca stearate 0.05, erucamide 0.2, 1,3,2,4-di(p-methyl)benzylidenesorbitol 0.1, TiO₂ 1.5, and 2,5-dimethyl-2,5-di-(tert-butylperoxy)hexane 0.012 part showed MFR 15 g/10 min, ME 1.11, crystallization initiation temperature 130.8°, flexural modulus 16,000 kg/cm², and good warp resistance.

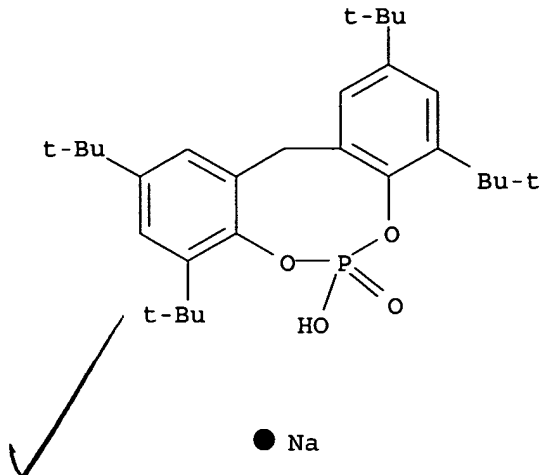
IT **85209-91-2**, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate

RL: DEV (Device component use); MOA (Modifier or additive use); PRP (Properties); USES (Uses)

(nucleating agent; polypropylene compns. with good warp and discoloration resistance for toilet parts)

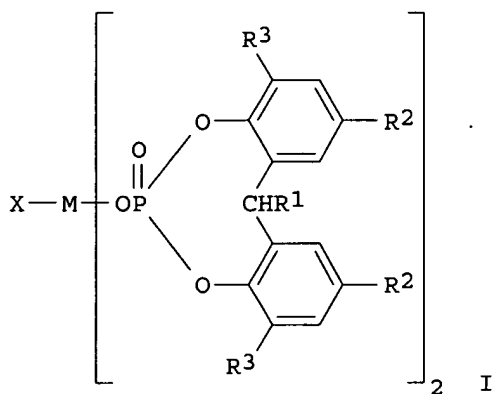
RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



L87 ANSWER 22 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1999:331436 HCAPLUS
 DN 131:9682
 TI Polypropylene resin compositions for medical containers
 IN Yamazaki, Hajime; Kitano, Yoshitada; Okada, Hiroharu
 PA Nippon Polychemicals Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11140247	A2	19990525	JP 1997-317619	19971104 <--
PRAI	JP 1997-317619		19971104	<--	
OS	MARPAT 131:9682				
GI					

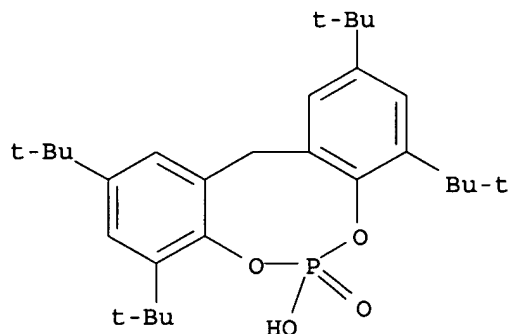


AB The compns., which satisfy all items of the test for polyethylene or polypropylene containers for aqueous injections in Japanese Pharmacopeia, contain (A) 100 parts polypropylene or propylene-ethylene random copolymer (ethylene content $\leq 3\%$) showing Ti content < 1 ppm and melt flow rate (MFR) 0.5-70 g/10 min, (B) 0.025-0.15 part ≥ 1 selected from alkali

metal carboxylates, alkali metal β -diketonates, and β -ketoacetate ester alkali metal salts, (C) 0.025-0.15 part cyclic organic phosphate ester basic polyvalent metal salts I [R1 = H, C1-4 alkyl; R2, R3 = H, C1-12 alkyl; M = group III or IV metal; if M = group III metal, then X = OH; if M = group IV metal, then X = :O, (OH)2], and (D) 0.10 part $Mg_{1-x}Al_x(OH)_2(CO_3)_{x/2} \cdot mH_2O$ (II; $0 < x \leq 0.5$; $m \leq 3$) and/or $[Al_2Li(OH)_6]_nX \cdot mH_2O$ (III; X = inorg. anion; n = valency of X; $m \leq 3$) 0.01-0.10 phr so that the following relation is satisfied: $b \leq 0.046-0.083a$ [a = sum of concentration (weight%) of (B) and that of I; b = concentration (weight%) of II and/or III]. The compns. show good resistance to steam sterilization, high transparency, and gas impermeability. Polypropylene (Ti content <1 ppm, MFR 7 g/10 min), NA 11 (cyclic organophosphates) 0.15 phr, Mizukalac 0.03 phr, MARK 2112 (phosphite antioxidant), and TINUVIN 622LD (hindered amine antioxidant) were mixed and extruded to give pellets. The pellets were injection molded into a sheet with haze 20 (27 after steam sterilization), Du Pont impact strength (J) 1.3, which passed the above test.

IT 85209-91-2, ADK Stab NA 11
 RL: MOA (Modifier or additive use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (polypropylene resin compns. for medical containers containing specific nucleating agents and neutralizing agents)

RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



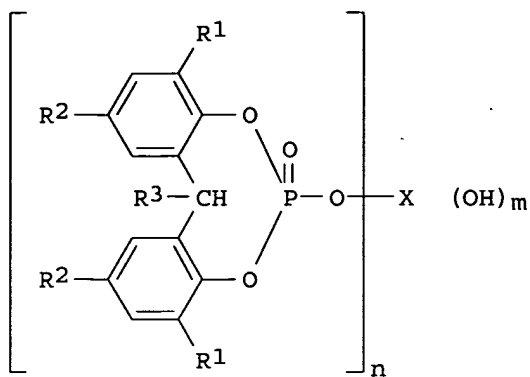
● Na

L87 ANSWER 23 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1999:316986 HCAPLUS
 DN 130:339050
 TI Composition for wallpaper
 IN Takahashi, Masayuki; Shinbo, Kosaburo; Dai, Naoko
 PA Asahi Denka Kogyo K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11130892	A2	19990518	JP 1997-314629	19971031 <--

PRAI JP 1997-314629
 OS MARPAT 130:339050
 GI

19971031 <--



I

AB The title composition comprises (1) 100 parts of a thermoplastic elastomer, (2) 0.001-20 parts of a foaming agent, and (3) 0.001-10 parts of a compound I (R1 = C4-8 alkyl or cycloalkyl, C6-12 aryl, alkylaryl or arylalkyl; R2 = H, C1-8 alkyl or cycloalkyl, C6-12 aryl, alkylaryl or arylalkyl; R3 = H, methyl; n = 1, 2; m = 0-2; X = metal of m+n valence). The invention composition can provide wallpaper with uniform foaming cells and superior mech. strength.

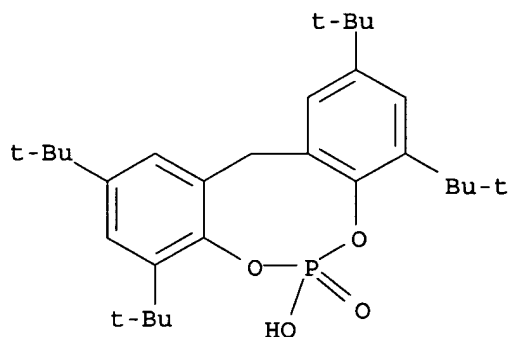
IT 85209-91-2

RL: MOA (Modifier or additive use); USES (Uses)

(contained in foaming composition containing phosphate compound and fire-retarder
 for wallpaper)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)

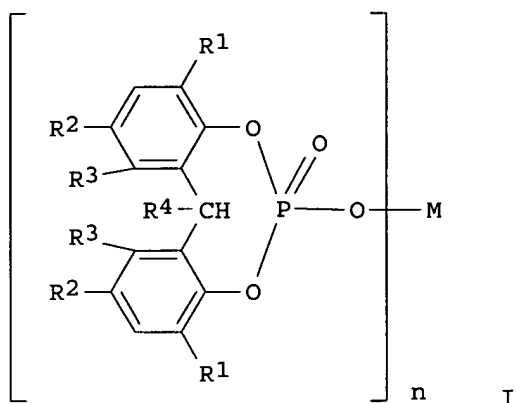


● Na

L87 ANSWER 24 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1999:271122 HCAPLUS

DN 130:338845
 TI Antibacterial nonwoven fabric
 IN Kimura, Ryoji; Takahashi, Masayuki; Funamizu, Tomoyuki
 PA Asahi Denka Kogyo K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 13 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

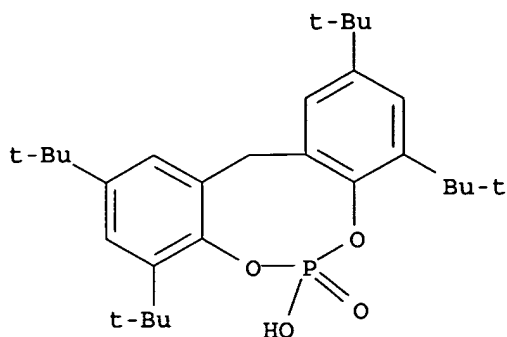
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11116822	A2	19990427	JP 1997-288344	19971021 <--
PRAI	JP 1997-288344		19971021 <--		
OS	MARPAT 130:338845				
GI					



AB The antibacterial nonwoven fabric contains a cyclic organic phosphate compound I (R1-3 = C1-18 alkyl; R4 = H, Me; n = 1, 2; M = H or alkali metal when n = 1; M = alkaline earth metal, Zn, or Cu when n = 2) 0.001-10 weight parts based on 100 weight parts of a polymer material. The polymer material may be a polyolefin or polyester. The composition may contain zinc oxide or hydride.

IT **85209-91-2**
 RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
 (organic antibacterial agent; antibacterial nonwoven fabric)

RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g] [1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 25 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:208738 HCAPLUS

DN 130:282841

TI Whitening-resistant thermoplastic resin composition and its production method

IN Mori, Ryoji; Moriya, Satoru; Ishimoto, Akio

PA Mitsui Chemicals Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11080566	A2	19990326	JP 1997-277820	19971009 <--
	JP 11080567	A2	19990326	JP 1997-292877	19971024 <--
PRAI	JP 1997-184914	A	19970710	<--	

AB The composition with good heat resistance, rigidity, toughness, and gas barrier properties is produced by incorporating a composition containing hydrocarbyloxy-containing Si or Ti compds. and polar medium with a thermoplastic resin and stripping of the medium to give a resin containing 0.001-5 μm microparticles. Melt kneading a composition containing polypropylene 100, tetraethoxysilane 2, H₂O 1, and MeOH 0.2 part at 170° and 10 mmHg and injection molding gave test pieces with Izod impact strength 20 J/m, flexural modulus 2300 KPa, and Martens hardness 30.

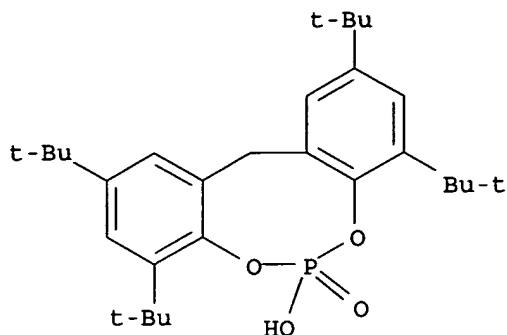
IT 85209-91-2, NA 11

RL: MOA (Modifier or additive use); USES (Uses)

(whitening-resistant thermoplastic resin composition with good heat resistance, rigidity, toughness, and gas barrier properties)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 26 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:155876 HCAPLUS

DN 130:253276

TI Polypropylene resin composition for automobile interior material
with balanced properties

IN Yagasaki, Takayuki; Wataru, Mitsuru; Kimura, Takashi

PA Grand Polymer K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11060886	A2	19990305	JP 1997-227945	19970825 <--
PRAI	JP 1997-227945		19970825	<--	

AB The composition comprises (A) propylene block copolymers with MFR 1-40 g/10 min 70-99, (B) ethylene-C6-10 α -olefin copolymers with MFR 1-60 g/10 min 1-30, (C) fibrous fillers (based on 100 parts polymers) 1-10, and (D) nucleating agents 0.01-1 part. A composition contained ethylene-propylene block copolymer (rubber content 12%) 91, 94:6 mol% ethylene-1-octene copolymer 9, rayon fibers 3, and NA 11 0.2, giving test pieces with MFR 23 g/10 min, tensile strength 26 MPa, Izod impact strength 193 kg-cm/cm, and Rockwell hardness 83.

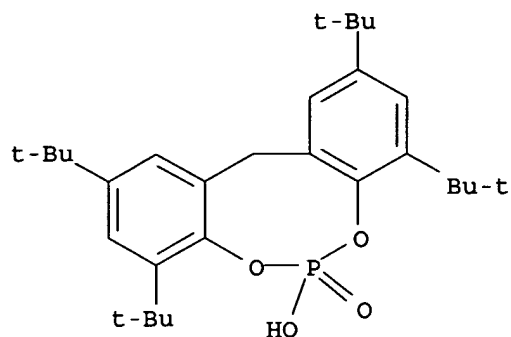
IT 85209-91-2, NA 11

RL: MOA (Modifier or additive use); USES (Uses)

(nucleating agent; polypropylene resin composition for automobile interior material)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 27 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1999:119829 HCAPLUS
 DN 130:169066
 TI Glass fiber-reinforced polyamide resin composition comprising an
 organic nucleating agent having gasoline resistance
 IN Lee, Byung Jin
 PA Hyundai Mortor Company, S. Korea
 SO U.S., 6 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5872175	A	19990216	US 1997-889823	19970708 <--
PRAI	US 1997-889823		19970708	<--	

AB A polyamide resin composition comprising 60-70 weight% polyamide 6 having relative viscosity 2.2-2.8, 20-30 weight% polyamide 6 having relative viscosity 3.2-3.6, and 3-10 weight% polyamide 66 having relative viscosity 2.5-3.5, aminosilane-treated glass fibers, and an organic nucleating agent in the form of phosphoric acid-metal salt, is especially useful for automobile parts such as a delivery pipe for gasoline or other automobile fuel and exhibits improved mech. strength and gasoline-resistance under thermally severe conditions. Thus, a complex polyamide resin comprising 70 weight% polyamide 6 having relative viscosity 2.6, 23 weight% polyamide 6 having relative viscosity 3.4 (prepared by the formic acid method), and 7 weight% polyamide 66 having relative viscosity 2.6 (prepared by the sulfuric acid method), was blended with 40 phr glass fibers (diameter 13 mm, length 3 mm, surface-treated with an aminosilane coupling agent), 0.3 phr sodium di(4-tert-butylphenyl)phosphate (I), 0.3 phr N,N'-hexamethylene-bis(3,5-di-tert-butyl-4-hydroxyamide), and 0.2 phr mold-releasing agent, was injection-molded at 280°, giving parts having tensile strength 2100 kg/cm², bending strength 3250 kg/cm², bending modulus of elasticity 109,000 kg/cm², impact strength 20 kg.cm/cm, and weight change <0.5% in gasoline, compared to 2040, 3220, 107,000, 10, and >0.75%, resp., for a similar composition using talc instead of I.

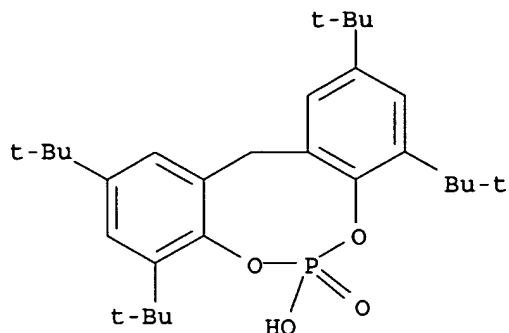
IT 85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl)phosphate

RL: MOA (Modifier or additive use); USES (Uses)

(nucleating agent; gasoline-resistant glass fiber-reinforced polyamide

comprising an organic nucleating agent)

RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Wissmann	1996			US 5500473	HCAPLUS

L87 ANSWER 28 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:708873 HCAPLUS

DN 129:331536

TI Compositions of olefin copolymers containing slip and antiblock agents for clear (laminated) films or sheets

IN Mergenhagen, Laura K.; Simmons, Brian E.; Wevers, Ronald; Fehr, Bernard; Van Volkenburgh, William R.

PA The Dow Chemical Co., USA; Van Volkenburgh, William R.

SO PCT Int. Appl., 98 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9846672	A2	19981022	WO 1998-US7650	19980415 <--
WO 9846672	A3	19990114		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2284604	AA	19981022	CA 1998-2284604	19980415 <--
AU 9869740	A1	19981111	AU 1998-69740	19980415 <--
ZA 9803157	A	19991015	ZA 1998-3157	19980415 <--
EP 975695	A2	20000202	EP 1998-915601	19980415 <--
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE, FI				

TW 387920	B	20000421	TW 1998-87105751	19980415 <--
BR 9809570	A	20001017	BR 1998-9570	19980415 <--
JP 2001520697	T2	20011030	JP 1998-544281	19980415 <--
MX 9909521	A	20000228	MX 1999-9521	19991015 <--
PRAI US 1997-43954P	P	19970416	<--	
US 1997-69705P	P	19971216	<--	
WO 1998-US7650	W	19980415	<--	

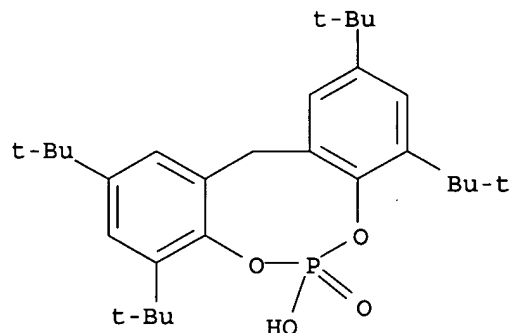
OS MARPAT 129:331536

AB Resin compns. (for films for packaging sealants) comprise a homogeneous ethylene/ α -olefin interpolymer; and a saturated fatty acid amide or saturated ethylenebis(amide), unsatd. fatty acid amide or unsatd. ethylenebis(amide), and a finely divided inorg. compound The compns. comprise a substantially random interpolymer of ≥ 1 α -olefins with ≥ 1 vinylidene aromatic monomers and/or ≥ 1 hindered aliphatic or cycloaliph. vinylidene monomers or blends, slip agents, addnl., ≥ 1 modifying agent of propylene homopolymers, propylene copolymers, nucleating agents, and mixts. Thus, a blend of Affinity PL 1880 (d. 0.9110 g/cm³; metallocene catalyzed), 1500 ppm erucamide, 250 ppm stearamide, 2500 ppm SiO₂ was formed into a blown film (2 mil thickness) having blocking (good <49 g) 45.4 g and coefficient of friction (good <0.31) 0.25.

IT 85209-91-2
 RL: MOA (Modifier or additive use); USES (Uses)
 (nucleating agent for compns. of metallocene-catalyzed copolymers containing slip and antiblock agents for (laminated) films or sheets)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)

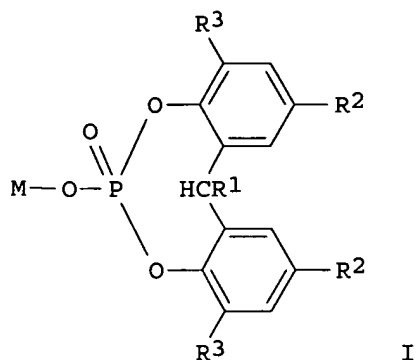


● Na

L87 ANSWER 29 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1998:512549 HCAPLUS
 DN 129:162304
 TI Poly(phenylene sulfide) resin compositions with excellent moldability and solder heat resistance
 IN Ueda, Masaji; Ishikawa, Tomohiro
 PA Tosoh Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10212408	A2	19980811	JP 1997-15359	19970129 <--
	JP 3637715	B2	20050413		
PRAI	JP 1997-15359		19970129	<--	
OS	MARPAT 129:162304				
GI					



AB Title compns. consist of 100 parts blends of 70-95% polythiophenylenes with melt viscosity 10-50,000 P and 5-30% crystalline polyamides, 0.05-5 parts fatty acid metal salts with decomposition temperature $\geq 280^\circ$ or diaryl phosphate metal salts I (R1 = H, C1-4 alkyl; R2, R3 = C1-9 alkyl; M = alkali metal), and 25-100 parts fibrous reinforcing fillers. A composition of p-C6H4Cl2-Na2S copolymer (with melt viscosity 1540 P) 95, UBE nylon 2020H 5, Na montanate 0.5, and glass fibers 67 parts was kneaded, pelletized, and injection molded to give a product showing flow length 62 mm, fin length 38 μm , and good blister resistance.

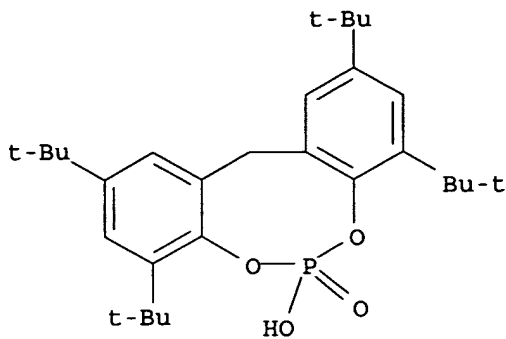
IT 85209-91-2, NA 11

RL: MOA (Modifier or additive use); USES (Uses)

(polyamide-containing polythiophenylene compns. with good moldability and solder heat resistance)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

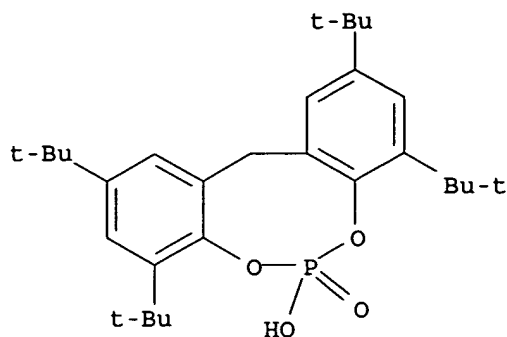
L87 ANSWER 30 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1998:334509 HCAPLUS
 DN 129:28891
 TI Hot-sealable and heat-shrinkable laminated polypropylene films
 IN Hirata, Koji; Maeda, Hiroyuki; Suzuki, Junkichi
 PA Tokuyama Soda Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10138419	A2	19980526	JP 1996-296196	19961108 <--
PRAI	JP 1996-296196		19961108	<--	

AB Title films, contain biaxially oriented polypropylene bases and crystal nucleating agent-containing polypropylene hot-sealable layers. A biaxially oriented 22- μm polypropylene film was clad with 2 1.5- μm 0.2% 1,3-p-chlorobenzylidene-2,4-p-methylbenzylidene sorbitol-containing 6:94 C₂H₄-C₃H₆ copolymer films to form a laminate showing initial sealing temperature 124°, JIS C 2318 120° shrinkability 4.3 and 5.9 in machine and transverse direction, resp., and no whitening after shrinkage.

IT 85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl)phosphate
 RL: MOA (Modifier or additive use); USES (Uses)
 (crystal nucleating agent; hot-sealable and shrinkable propylene resin laminates containing oriented base and crystal nucleating agent-containing layers)

RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 31 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1998:246639 HCAPLUS
 DN 129:5240
 TI Methacrylic **resins** and manufacturing methods therefor
 IN Iwane, Kazuyoshi; Matsuo, Ryuichi
 PA Sekisui Chemical Co. Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10101860	A2	19980421	JP 1996-353504	19961216 <--
PRAI	JP 1996-226031	A	19960807	<--	

AB Transparent, impact-resistant, and phase-separating **resins** comprise matrixes of EVA polymer and dispersed phases of Me methacrylate **resins** having size 0.01-0.5 μm . Thus, EVA 20, Me methacrylate 180, and bis(4-tert-butylcyclohexyl) peroxydicarbonate 0.5 g were mixed and cast polymerized to prepare a **resin**.

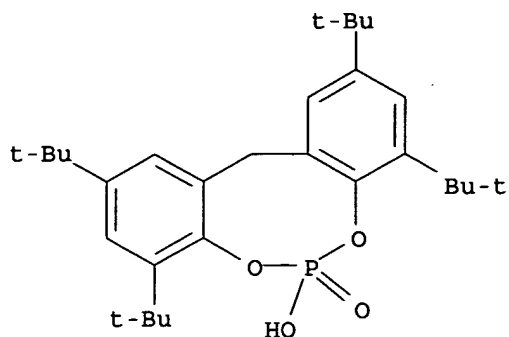
IT **85209-91-2**, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate

RL: MOA (Modifier or additive use); USES (Uses)

(nucleating agents; transparent and impact-resistant and phase-separating ethylene-Me methacrylate-vinyl acetate graft copolymer)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)

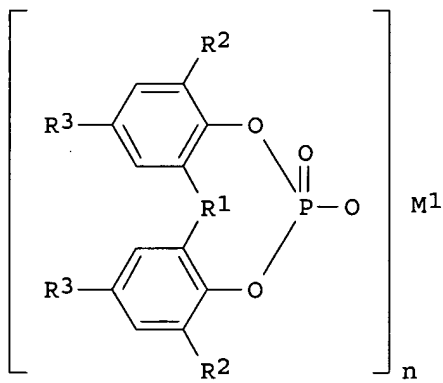


● Na

L87 ANSWER 32 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1998:126682 HCAPLUS
 DN 128:205520
 TI Propylene resin compositions with good heat resistance, wear resistances, rigidity, hardness, and high-speed moldability
 IN Aoki, Akira; Okata, Hiroharu; Fujita, Yuji
 PA Tonen Chemical Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10053673	A2	19980224	JP 1996-227413	19960808 <--
PRAI	JP 1996-227413		19960808	<--	
OS	MARPAT 128:205520				
GI					



AB Title comps., useful for elec. parts, automobile parts, etc., comprise (A) 100 parts high-crystalline polypropylene-based resins [melt flow rate (MFR; measured by JIS K7210) 0.5-300 g/10 min; $\Delta H_m \geq$

24.5 + 1.583log(MFR); ΔH_m = melting heat quantity determined by DSC], (B) 0.01-5 parts phosphate compds. I (R1 = direct bond, S, C1-9 alkylene or alkylidene; R2-3 = H, C1-8 alkyl; M1 = 1-3-valent metal atom; n = valence number of M1) and/or metal benzoates, and (C) 0.01-1 part metal aliphatic carboxylates. Thus, high-crystalline polypropylene (MFR 20 g/10 min, ΔH_m 28) 100, NA-11UF [Na 2,2'-methylenebis(4,6-di-tert-butylphenyl)phosphate] 0.05, and Zn behenate 0.2 parts, were dry-blended, melt-kneaded, and injection-molded to give a test piece showing MFR 23 g/10 min, flexural modulus 22,500 kg/cm², and Izod impact strength 2.5 kg-cm/cm², heat distortion temperature 142°, du-Pont impact strength 3.2 kg-cm, and good high-speed moldability.

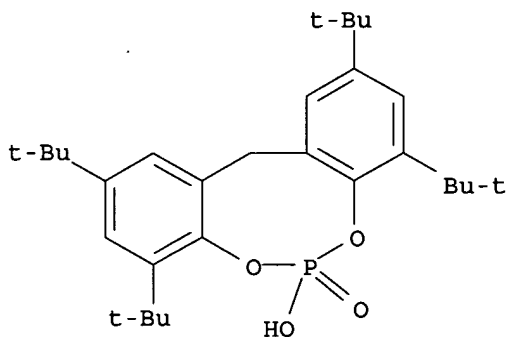
IT 85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl)phosphate

RL: MOA (Modifier or additive use); USES (Uses)

(NA-11UF, crystal nucleating agent; propylene polymer compns. containing phosphates and/or metal benzoates and metal aliphatic carboxylates for good heat resistance, wear resistance, and hardness)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 33 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:526144 HCAPLUS

DN 127:177542

TI Rigid resin compositions with good chemical resistance useful for drain pans of washing machine

IN Matsumoto, Yoshifumi; Yoshimura, Teruo

PA Tokuyama Soda Co., Ltd., Japan; Toto Ltd.; Idemitsu Petrochemical Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09202847	A2	19970805	JP 1996-11287	19960125 <--
	JP 3605461	B2	20041222		
PRAI	JP 1996-11287		19960125	<--	
AB	The compns. with good surface gloss, impact resistance, and moldability				

contain (a) 100 parts high-crystalline propylene (I)-ethylene (II) block copolymer and (b) 0.01-3.0 parts nucleating agents. Thus, mixing I-II block copolymer [isotactic pentad fraction 0.970%, II content 3.8 weight% melt flow rate (MFR) 15 g/10 min] 100, Al p-butylbenzoate 0.3, hindered phenol antioxidants 0.04, phosphide type antioxidants 0.04, and ivory type pigments 1.3 parts and melt-kneading at 230° gave a pellet showing gloss 84% and MFR 15 g/10 min. Then, the pellet was injection-molded to give the title drain pan showing good impact and chemical resistance.

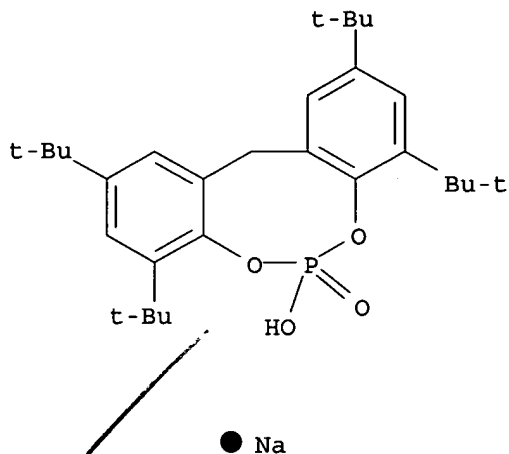
IT 85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate

RL: MOA (Modifier or additive use); USES (Uses)

(nucleating agents; high crystalline propylene-ethylene copolymer comps. prepared by using nucleating agents)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



L87 ANSWER 34 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:456569 HCAPLUS

DN 127:66648

TI Crystalline synthetic resin compositions with improved mechanical properties and transparency

IN Takahashi, Masayuki; Yoshikawa, Kazumi; Takeuchi, Takashi

PA Asahi Denka Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

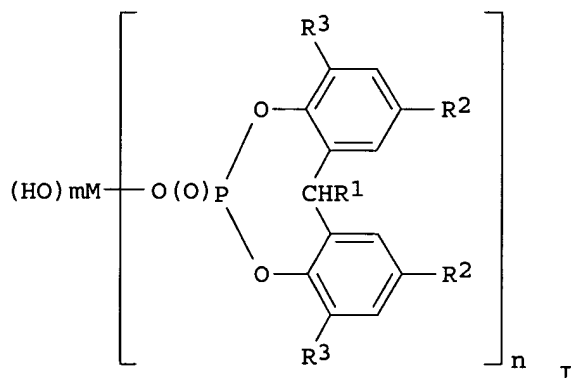
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09118776	A2	19970506	JP 1995-278141	19951025 <--
	JP 3630479	B2	20050316		
PRAI	JP 1995-278141		19951025	<--	
OS	MARPAT 127:66648				
GI					

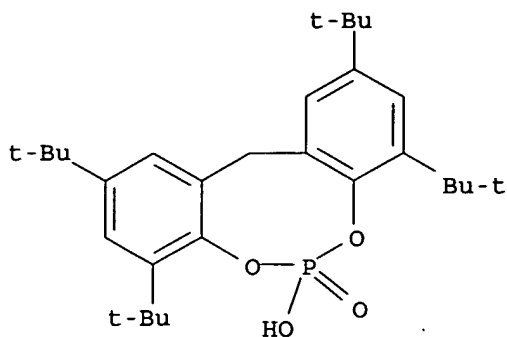
L87 ANSWER 35 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1997:410269 HCAPLUS
 DN 127:35027
 TI Polypropylene resin compositions and their moldings with improved mechanical strength
 IN Takahashi, Masayuki; Konō, Toshinori; Takeuchi, Takashi
 PA Asahi Denka Kogyo K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09104790	A2	19970422	JP 1995-287996	19951009 <--
PRAI	JP 1995-287996		19951009	<--	
OS	MARPAT 127:35027				
GI					



AB Title compns. contain 100 parts 95/5-55/45% resin compns. of polypropylene resins and non-crystalline ethylene-propylene copolymer and 0.01-5 parts cyclic organic phosphate metal salts I [R1= H, C1-4 alkyl; R2, R3 = H, C1-12 alkyl, cycloalkyl, aryl, aralkyl; M = alkali metals, alkaline earth metals, Al, Zn; m = 0 and n = 1 (M = alkali metals), n = 1, 2 (M = divalent metals), n = 1 and m = 1 or n = 2 and m = 0, m = 1 and n = 2 (M = Al)]. Title moldings prepared from the above compns. are prevented generation of warp. Thus, blocked polypropylene (BJHH) 70, ethylene-propylene rubber (EP 07) 30, and a phosphate Na salt 0.2 part were mixed, pelletized, and injection molded to give a test piece showing crystallizing temperature 132.0° and warp 0.2 mm.

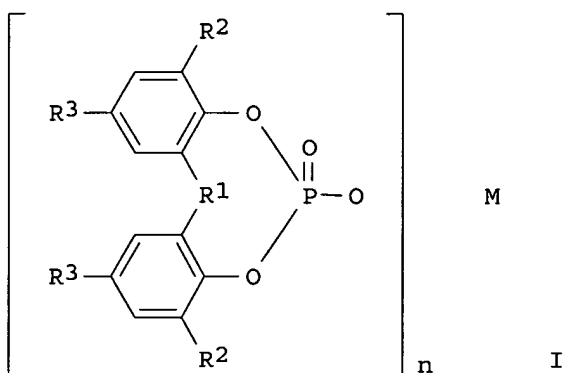
IT 85209-91-2
 RL: MOA (Modifier or additive use); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (polypropylene compns. containing phosphate metal salts and their moldings with improved mech. strength)
 RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

✓
 L87 ANSWER 36 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1997:360999 HCAPLUS
 DN 127:18455
 TI Rigid, impact- and heat-resistant propylene polymer compositions
 IN Moriya, Masayuki; Sakurai, Kenichi; Okada, Koji
 PA Tonen Chemical Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

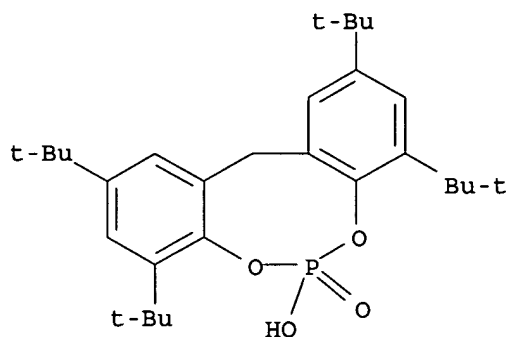
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09087451	A2	19970331	JP 1995-273485	19950927 <--
PRAI	JP 1995-273485		19950927	<--	
OS	MARPAT 127:18455				
GI					



AB The title compns. (MFR 0.5-300 g/10 min) comprise (A) **resin** component comprising 70-95% polypropylene part having MFR 0.01-1000 g/10 min, DSC heat of fusion $\Delta H_m \geq 24.50 + 1.583 \log$ MFR, 30-80% ethylene content, and 5-30% propylene-ethylene copolymer part with limiting viscosity 2-6 dL/g and (B) 0.05-3 phr I or [(p-R4C6H4O)2P(O)O]_nM

(R1 = direct bond, S, C1-9 alkylene, alkylidene; R2-4 = H, C1-8 alkyl; M = 1-3 valent metal; n = valency of M). An ethylene-propylene copolymer of desired specification given above was prepared, compounded with 0.2 phr NA 11, and injection molded to give a specimen with bending modulus 18,000 kg/cm², Izod impact strength 5.5 kg-cm/cm, and heat distortion temperature 126°.

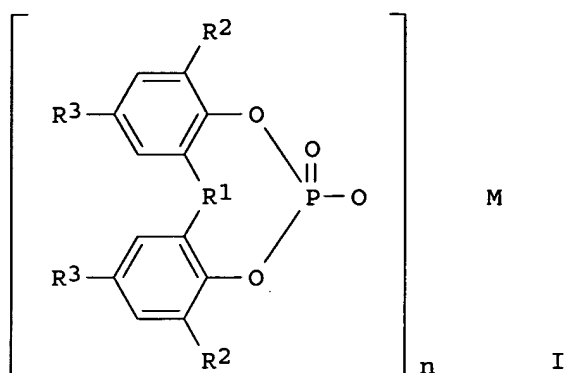
IT 85209-91-2, NA 11
 RL: MOA (Modifier or additive use); USES (Uses)
 (rigid, impact- and heat-resistant propylene polymer compns.)
 RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 37 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1997:360998 HCAPLUS
 DN 127:18454
 TI Rigid, impact- and heat-resistant propylene polymer compositions
 IN Moriya, Masayuki; Sakurai, Kenichi; Okada, Koji
 PA Tonen Chemical Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09087449	A2	19970331	JP 1995-273484	19950927 <--
PRAI	JP 1995-273484		19950927	<--	
OS	MARPAT 127:18454				
GI					



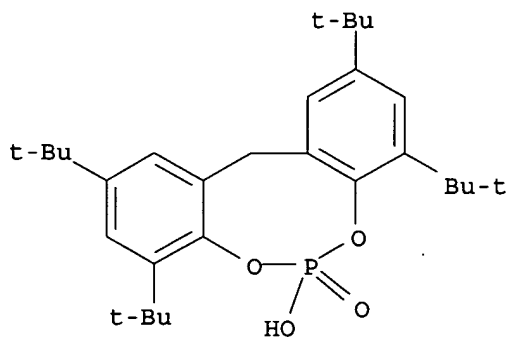
AB The title compns. (MFR 0.5-300 g/10 min) comprise (A) resin component comprising 70-95% polypropylene part having MFR 0.01-1000 g/10 min, DSC heat of fusion $\Delta H_m \geq 24.50 + 1.583 \log \text{MFR}$, 30-80% ethylene content, and 5-30% propylene-ethylene copolymer part with limiting viscosity 2-6 dL/g, (B) 0.05-3 phr I or $[(p-R_4C_6H_4O)_2P(O)O]_nM$ (R_1 = direct bond, S, C1-9 alkylene, alkylidene; R_2-4 = H, C1-8 alkyl; M = 1-3 valent metal; n = valency of M), and (C) 0.01-0.5 phr $[Al_2Li(OH)_6]_nX \cdot mH_2O$ (X = anion; n = valency of X ; $m \leq 3$). An ethylene-propylene copolymer of desired specification given above was prepared, compounded with 0.2 phr NA 11 and 0.05 phr Mizukalac, and injection molded to give a specimen with bending modulus 18,800 kg/cm², Izod impact strength 5.5 kg-cm/cm, and heat distortion temperature 126°.

IT 85209-91-2, NA 11

RL: MOA (Modifier or additive use); USES (Uses)
(rigid, impact- and heat-resistant propylene polymer compns.)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 38 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:334712 HCAPLUS

DN 127:5766

TI Crystalline thermoplastic resin compositions

IN Tan, Junji; Kasai, Tetsushi; Hori, Hiroyuki; Matsumoto, Hiroshi; Maeda, Masao; Natsuhara, Eisuke
 PA Mitsui Petrochemical Industries, Ltd., Japan; Arakawa Chemical Industries, Ltd.
 SO Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09071729	A2	19970318	JP 1995-231246	19950908 <--
PRAI	JP 1995-169087	A	19950704 <--		
OS	MARPAT 127:5766				

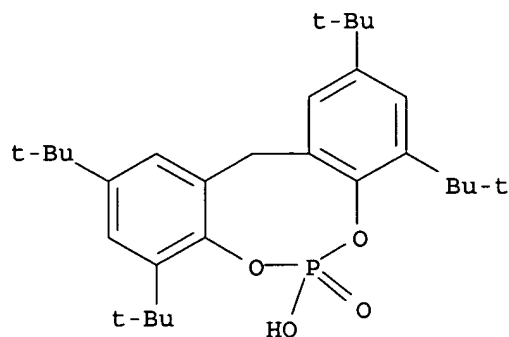
AB The title compns. contain crystalline thermoplastic **resins** 100, crystal nucleating agents of rosin acid partial metal salts 0.001-5, and other nucleating agents 0.001-5 parts. Thus, a test piece contained polypropylene 100, Irganox 1010 0.1, Ca stearate 0.1, and dehydroabiatic acid 15% K 15% Na salt 0.1, and Gelall MD 0.1 part.

IT 85209-91-2, NA 11

RL: MOA (Modifier or additive use); USES (Uses)
 (nucleating agents; thermoplastic **resins** containing rosin acid nucleating agents and other nucleating agents)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g] [1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 39 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:174826 HCAPLUS

DN 126:172375

TI Polypropylene **resin** molding compositions with good balance of stiffness, transparency and resistance to heat, impact and whitening

IN Udagawa, Hiroyuki; Okada, Koji

PA Tonen Kagaku Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 09003293 A2 19970107 JP 1995-171583 19950615 <--
 PRAI JP 1995-171583 19950615 <--

OS MARPAT 126:172375

AB The compns. useful for molding into containers, automobile parts, etc. (no data), comprise 100 parts (a) block copolymers having 95-70 parts crystalline polypropylene (I) block and 5-30 parts ethylene-propylene copolymer (II) block, or (b) a 95-70:5-30 mixture of I and II, 0.01-3.0 parts phosphoric acid (optionally p-C1-9 alkyl-substituted) di-Ph or bisphenyl ester salts with metals having valency of 1-3, and 0.01-0.5 part [Al₂Li(OH)₆]_nX·mH₂O (M = organic or inorg. anion; n = valency of X; m = 0-3). Thus, an (a)-type block ethylene-propylene copolymer was prepared by a 2-step polymerization using solid catalyst containing Mg and Cl ions,

Et3Al

cocatalyst and dimethyldiphenylsilane as usual, mixed (100 parts) with Na 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate 0.1, Mizukalac 0.05, 2,6-di-tert-butyl-4-methylphenol 0.18, distearyl thiopropionate 0.08, and tetrakis[methylene(3,5-di-tert-butyl-4-hydroxyhydrocinnamato)]methane 0.04%, kneaded, pelletized and injection molded to give moldings with haze 38.3%, flexural modulus 12,400 kg/cm² and duPont impact strength (at -20°, 1 mm) 27.2 kg/cm.

IT 85209-91-2, Sodium 2,2'-Methylenebis(4,6-di-tert-butylphenyl) phosphate

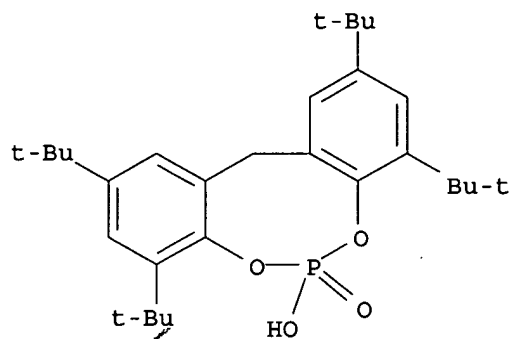
RL: MOA (Modifier or additive use); USES (Uses)

(heat stabilizer/antioxidant; polypropylene resin molding

compns. with good balance of stiffness, transparency and resistance to heat, impact and whitening)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



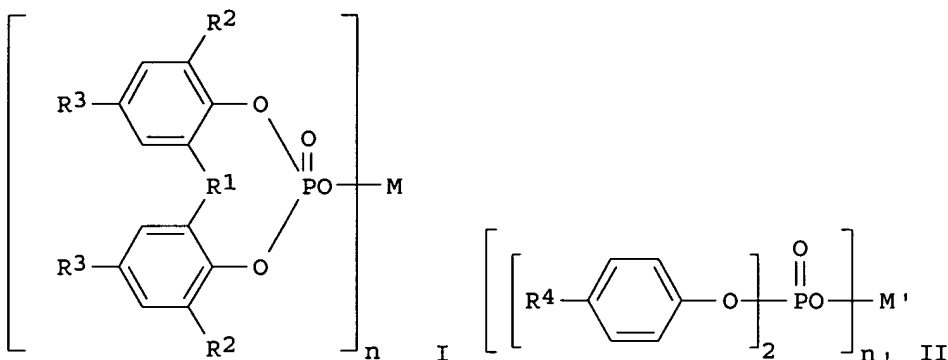
● Na

L87 ANSWER 40 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1997:116319 HCAPLUS
 DN 126:144972
 TI Polypropylene resin composition containing phosphates
 IN Udagawa, Hiroyuki; Okada, Koji
 PA Tonen Kagaku Kk, Japan
 SO Jpn. Kokai Tokkyo Koho, 13 pp.
 CODEN: JKXXAF
 DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08311295	A2	19961126	JP 1995-145194	19950522 <--
PRAI	JP 1995-145194		19950522	<--	
OS	MARPAT 126:144972				
GI					



AB Comps. with good rigidity, impact resistance, heat resistance, transparency, and whitening resistance comprise 100 parts ethylene-propylene block copolymer and 0.01-3.0 parts phosphate compound. The ethylene-propylene block copolymer comprises 70-95 parts crystalline propylene polymer and 5-30 parts ethylene-propylene copolymer, and has ethylene content 3-22%, melt flow rate 0.3-100 g/10 min, cold xylene sols. 2.5-20.0%, ethylene content of cold xylene-soluble and acetone-insol. fraction 40-80%, ratio of limiting viscosity of the cold xylene insols. to the cold xylene-sols. 0.4-2.0, and microfusion peak 118-130°. The phosphates comprise I or II, where R1 is a direct bond, S, or C1-4 alkylene, R2, R3 are H, C1-8 alkyl, M is a metal of 1-3 valence, n is 1-3, R4 is H or C1-8 alkyl, M' is a metal of 1-3 valence, n' is 1-3. An composition contained ethylene-propylene block copolymer and sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl)phosphate.

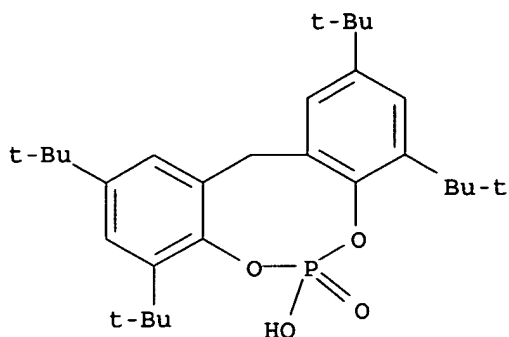
IT 85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl)phosphate

RL: MOA (Modifier or additive use); USES (Uses)

(polypropylene resin composition containing phosphates)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 41 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1996:618697 HCAPLUS

DN 125:255087

TI Optical fiber cores with polymer coatings for low light transmitting loss

IN Oosada, Koji; Murayama, Hitoshi; Ito, Mitsuo; Shiono, Takeo

PA Showa Electric Wire & Cable Co, Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08208278	A2	19960813	JP 1995-15296	19950201 <--
PRAI	JP 1995-15296		19950201	<--	

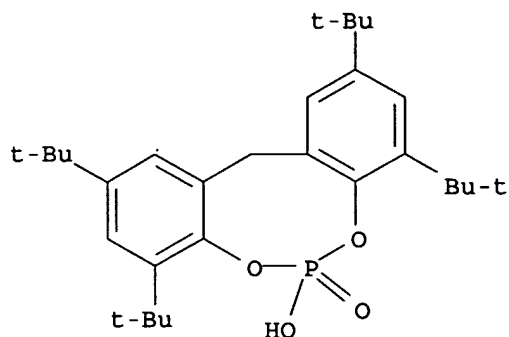
AB The optical fiber cores are coated with a 1st coating layer (e.g., silicone) and then coated with a 2nd coating layer having a higher Young's modulus than that of the 1st coating layer, and the 2nd coating layer is a crystalline resin dispersed with nucleating agents which have higher m.p. than that of crystalline resin. The crystalline resin is a thermoplastic resin, and the content of the nucleating agent is 0.1-5 weight parts based on 100 weight parts of crystalline resin. The coated optical fiber cores have low light transmitting loss.

IT 85209-91-2

RL: TEM (Technical or engineered material use); USES (Uses)
(nucleating agent; optical fiber cores with polymer coatings for low light transmitting loss)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

187 ANSWER 42 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1996:546139 HCAPLUS
 DN 125:169702
 TI Impact-resistant polypropylene-based resin compositions
 IN Tagashira, Katsuharu; Tanabe, Kojiro; Goto, Hideharu
 PA Showa Denko Kk, Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08151487	A2	19960611	JP 1994-319056	19941129 <--
	JP 3401530	B2	20030428		
PRAI	JP 1994-319056		19941129	<--	

AB Title composition comprises (A) 49-89 wt% polypropylene (PP) with isotactic pentad fraction (mmmm%) >99.0 and satisfied with following equation:
 $9 - 0.58 + \log \text{MFR (g/10 min)} > Q > 6.5 - 0.58 + \log \text{MFR (g/10 min)}$, (B) 10-50 wt% ethylene-propylene rubber (EPR), and (C) 1-10 wt% α -olefin ($C > 4$) and ethylene-based copolymer as dispersion promoter. Thus, a resin composition was obtained by extruding PP resin composition 100 parts, which was prepared by blending PP 82.5 wt% with EPR 12.5 wt% and hydrogenated butadiene block copolymer (Dynaron E 6100P) 5 wt%, with sodium 2,2'-methylene-bis(4,6-di-tert-butylphenyl)phosphate (NA 11) 0.4 part, BHT 0.08 part, Irganox 1010 0.05 part, calcium stearate 0.1 part at 200° to give a resin composition. The composition prepared showed high impact-resistant property.

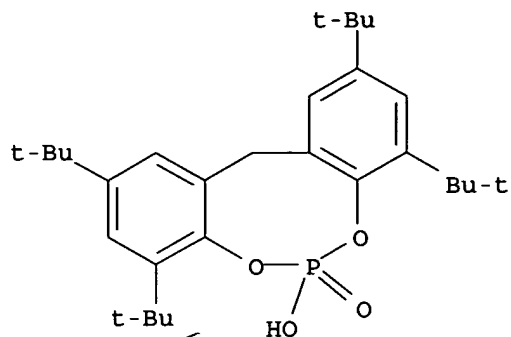
IT 85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate

RL: NUU (Other use, unclassified); USES (Uses)

(resin component; preparation and properties of impact-resistant polypropylene-based resin compns.)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 43 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1996:248213 HCAPLUS

DN 124:345449

TI Resin cleaning agents for molding machines

IN Mihara, Masami; Hata, Shigemi

PA Idemitsu Petrochemical Co, Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08027335	A2	19960130	JP 1994-164109	19940715 <--
	JP 3476028	B2	20031210		
PRAI	JP 1994-164109		19940715	<--	

AB The agents contain (A) syndiotactic styrene-based polymers with average mol. weight (Mw) 10 x 10⁴-60 x 10⁴ and optional 20-80 parts copolymers comprising 84-99% aromatic vinyl compds. and 1-16% unsatd. dicarboxylic acid anhydrides, (B) surfactants 0.5-20, and (C) crystal nucleation agents and optional inorg. fillers 0.1-30 parts. Thus, syndiotactic polystyrene (Mw 10 x 10⁴) 100, Denon 2035 (nonionic surfactant) 10, NA 11 0.5 part were melt-kneaded to obtain a cleaning agent.

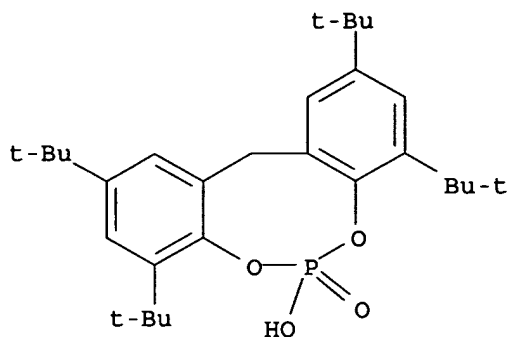
IT 85209-91-2, NA 11

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(resin cleaning agents containing polystyrene, surfactants, nucleation agents)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 44 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1996:179106 HCAPLUS
 DN 124:234000
 TI Crystalline synthetic resin compositions
 IN Haruna, Tooru; Takahashi, Masayuki; Shibazaki, Junji
 PA Asahi Denka Kogyo KK, Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

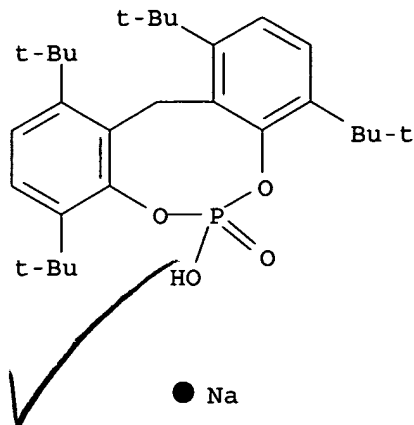
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08003364	A2	19960109	JP 1994-156690	19940615 <--
PRAI	JP 1994-156690		19940615	<--	
OS	MARPAT 124:234000				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The compns. with transparency and good mech. properties contain crystalline synthetic resins 100, dibenzylidene sorbitols I 0.01-5, and aromatic organic phosphate metal salts II or III (R1-5 = H, C1-4 alkyl; R6-10 = H, C1-12 alkyl; M1-2 = alkali metal, alkaline earth metal, Zn, Al; p = 1, 2; if M1-2 = alkali metal, alkaline earth metal, or Zn, q = 0; if M1-2 = Al, q = 1, 2) 0.01-5 parts. Thus, polypropylene 100, tetrakis[methylene-3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]methane 0.1, tris(2,4-di-tert-butyl) phosphite 0.1, calcium stearate 0.1, I (R1-4 = Me) 0.1, and II (R5-7 = tert-butyl; M = Na; p = 1) 0.01 part were mixed to obtain a test piece showing good transparency and mech. properties.

IT 151367-62-3
 RL: MOA (Modifier or additive use); USES (Uses)
 (sorbitol- and phosphate metal salt-containing crystalline synthetic resin compns. with transparency and mech. properties)

RN 151367-62-3 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 1,4,8,11-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



L87 ANSWER 45 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1996:101025 HCAPLUS
 DN 124:147881
 TI Heat- and impact-resistant polypropylene resin compositions
 IN Watanabe, Kazuyuki; Iwamoto, Tomoshi; Yanagihara, Hisayoshi
 PA Showa Denko Kk, Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07316357	A2	19951205	JP 1994-115619	19940527 <--
	JP 3398469	B2	20030421		
PRAI	JP 1994-115619		19940527	<--	

AB The title compns. useful for automobile parts, elec. devices and packaging comprise (A) polypropylene (I) with xylene insol. fraction (Xin) at 25° ≥98.0%, isotactic pentad ratio (P) 96.5%, isotactic average continuous chain length (N) ≥90, and total contents (Nf) of fractions having N ≥300 as measured by column chromatog. method of ≥10%, and (B) 0.1-40 parts (per 100 parts A) HDPE and/or (C) 0.05-20% (based on the compns.) nucleating agents. Thus, propylene (II) was prepolymd. at 0-5° in heptane in the presence of Et3Al, dicyclopentyl dimethoxysilane (III), and a catalyst prepared from (a) MgCl2, EtOH, TiCl4, and diisobutyl phthalate (IV), (b) TiCl4 and IV, and (c) TiCl4 to give a prepolymer. II was polymerized at 70° in the presence of the prepolymer, Et3Al, III, and IV at 70° to give I with MFR 34.2 g/10 min, Xin 99.5%, P 99.5%, N 836, and Nf 100%, 100 parts of which was blended with 10 parts HDPE, di-tert-butyl-p-cresol 0.05, pentaerythrityl tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] 0.10, and Ca stearate 0.10%, pelletized, and injection molded to give test pieces having the claimed properties.

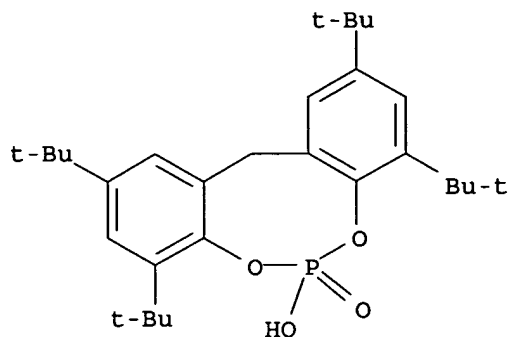
IT 85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate

RL: MOA (Modifier or additive use); USES (Uses)

(nucleating agent; in polyolefin compns. for molding with good heat and impact resistance)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 46 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1996:99474 HCAPLUS
 DN 124:291634
 TI Transparent polypropylene resin films and stabilized
 compositions for their manufacture
 IN Komaki, Koichi; Morita, Keita
 PA Nippon Petrochemicals Co., Ltd., Japan; Aipetsuku Kk
 SO Jpn. Kokai Tokkyo Koho, 22 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07309961	A2	19951128	JP 1994-127139	19940518 <--
	JP 3402754	B2	20030506		
PRAI	JP 1994-127139		19940518 <--		

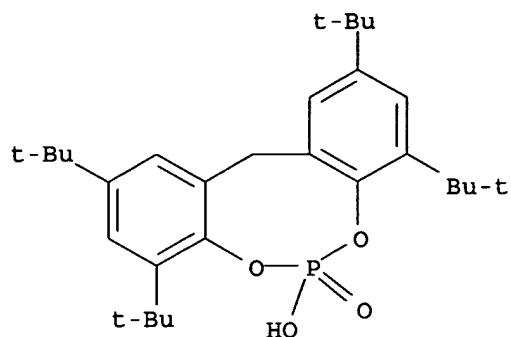
AB The title films having good gloss and appearance are manufactured by a continuous process in which a resin melt is extruded from T-die, pressed by cast roll and endless belt and annealed prior to reaching a taking-up roll where the resin melt contains polypropylene resins 100, P compound- or/and hindered phenolic compound-type antioxidants 0.01-0.5, nucleating agents 0.02-1.0, and optionally acid scavengers 0.01-0.5 parts. A film was prepared in this manner from a polypropylene 100, Irgafos 168 0.15, Irganox 0.05, Gel All MD (nucleating agent) 0.1 and Ca stearate 0.1 part.

IT 85209-91-2, ADK Stab NA 11

RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process); USES (Uses)
 (transparent films and stabilized comps. for manufacture)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 47 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1996:56445 HCAPLUS

DN 124:147824

TI Crystalline synthetic resin compositions with improved transparency and physical properties

IN Haruna, Tooru; Nishina, Takao; Takeuchi, Takashi

PA Asahi Denka Kogyo KK, Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07278448	A2	19951024	JP 1994-101570	19940415 <--
	JP 3369718	B2	20030120		
PRAI	JP 1994-101570		19940415	<--	

OS MARPAT 124:147824

GI For diagram(s), see printed CA Issue.

AB The comps. contain 0.01-5 phr ≥ 1 polyol metal salts I (A = 3-6-valent alc. residue; M = alkaline earth metal, Zn; m = 0-4; n = 1-3) and 0.01-5 phr ≥ 1 aromatic phosphoric acid ester metal salts. Thus, polypropylene 100, tetrakis[methylene-3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionato]methane 0.1, tris(2,4-di-tert-butylphenyl) phosphite 0.1, Ca stearate 0.1, a phosphate II 0.1, and Zn glycerolate 0.2 part were blended, pelletized, and molded to give a test piece showing haze 15.8%/1-mm, bending strength 428 kg/cm², flexural modulus 12,500 kg/cm², and crystallization temperature 136°.

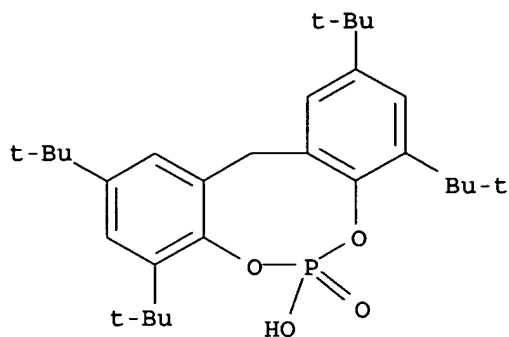
IT 85209-91-2

RL: MOA (Modifier or additive use); USES (Uses)

(polyol metal salts and aromatic phosphate esters for improved transparency and phys. properties of crystalline polymers)

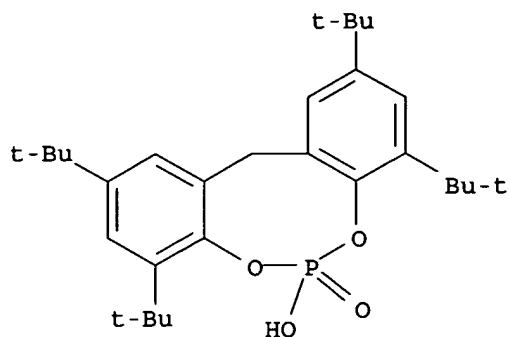
RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 48 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1996:39560 HCAPLUS
 DN 124:147713
 TI Effect of an organophosphorus salt type nucleating agent on filled polypropylene
 AU Fukushima, M.; Tobita, E.; Haruna, T.
 CS Polymer Additives & Resins Lab., Asahi Denka Kogyo K.K., Japan
 SO Annual Technical Conference - Society of Plastics Engineers (1995), 53rd(Vol. 3), 3581-6
 CODEN: ACPED4; ISSN: 0272-5223
 PB Society of Plastics Engineers
 DT Journal
 LA English
 AB Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate was an effective nucleating agent for propylene homo- and copolymers filled with talc.
 IT **85209-91-2**, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate
 RL: MOA (Modifier or additive use); USES (Uses)
 (crystal nucleating agents for talc-filled propylene polymers)
 RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 49 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1995:947319 HCAPLUS

DN 124:31665

TI Propylene-based resin compositions for caps of beverage containers

IN Kawai, Shigenobu; Osegaki, Kimiho; Sakurai, Hideo; Yada, Noryuki

PA Mitsubishi Kagaku KK, Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07238204	A2	19950912	JP 1994-32536	19940302 <--
	JP 3366416	B2	20030114		
PRAI	JP 1994-32536		19940302	<--	

AB The compns. comprise (A) 100 parts propylene-ethylene block copolymers with melt-flow rate (MFR) 1-50 g/10-min, consisting of (a) 88-95% crystalline polypropylene with MFR 5-100 g/10-min and d. ≥ 0.9070 g/cm³ and (b) 5-12% propylene-ethylene block copolymers containing 30-60% ethylene with MFR 0.001-1 g/10-min, which are manufactured through multistep (≥ 2) processes using organic Al compds. and support-type solid catalysts containing Mg, Ti, halogens, and electron donors, (B) 0.01-5 parts cyclic phosphate esters, (C) 0.1-5 parts nonionic surfactants, and (D) Ti oxide-based pigments. Thus, propylene was treated at 75° for 318 min in the presence of a support-type solid catalyst [manufactured from Me H siloxane, MgCl₂, Ti(OBu)₄, and TiCl₄], followed by treating with ethylene and propylene at 60° for 53 min to give a block copolymer, 100 parts of which was blended with Na 2,2'-methylenebis(4,6-di-tert-butylphenyl)phosphate 0.2, Electrostripper TS 5 0.5, TiO₂ 1, a phenolic antioxidant 0.05, and a neutralizer 0.05 part then molded to give test pieces showing flexural modulus 16,000 kg/cm², Izod impact strength (23°) 7.5 kg-cm/cm² and good heat resistance and low smelling.

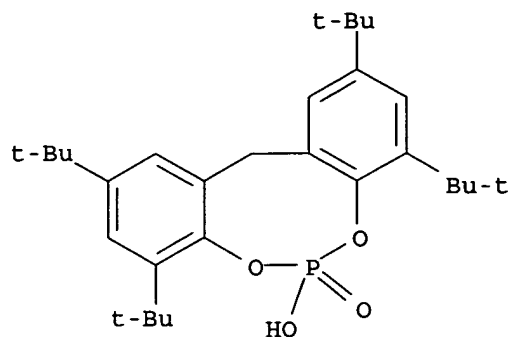
IT 85209-91-2

RL: FFD (Food or feed use); MOA (Modifier or additive use); PRP (Properties); BIOL (Biological study); USES (Uses)

(nucleating agent; propylene-based resin compns. for caps of beverage containers)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 50 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1995:823296 HCAPLUS

DN 123:206820

TI Primary coatings for optical fibers

IN Hoshino, Yukio; Yamamoto, Koichi; Hashimoto, Akio

PA Nippon Petrochemicals Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

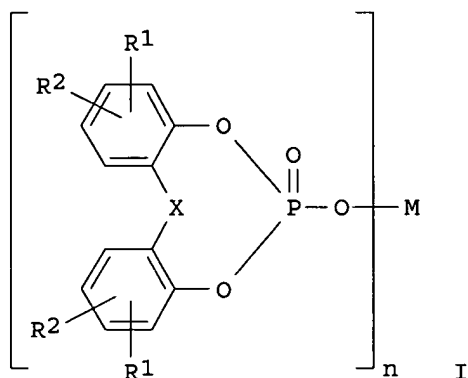
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07191242	A2	19950728	JP 1993-354779	19931224 <--
PRAI	JP 1993-354779		19931224 <--		
OS	MARPAT 123:206820				
GI					



AB The coatings consist of a polybutylene terephthalate resin

composition containing 0.05-3 weight parts of cyclic organic phosphate metal salt (I) with respect to 100 weight parts of the polybutylene terephthalate with relative viscosity 2.2-3.3, where R1 and R2 is H atom, alkyl group, aryl-alkyl group, aryl group, or alkyl-aryl group resp., X is direct bond, alkylidene group, or S, M is a metal atom, and n is the atomic valency of the metal. The coatings have good elasticity and high-temperature mech. properties.

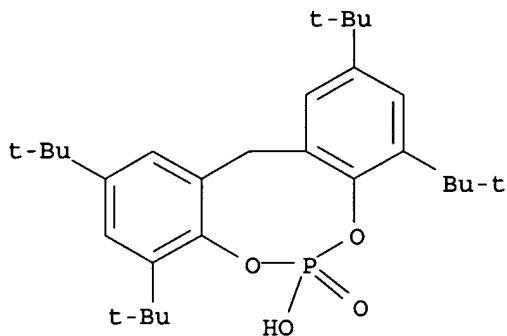
IT 85209-91-2, MARKNA-11

RL: MOA (Modifier or additive use); USES (Uses)

(primary coatings containing polybutylene terephthalate and cyclic organic phosphate metal salt for optical fibers for elasticity and mech. property)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 51 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1995:780574 HCAPLUS

DN 123:342688

TI Crystalline polypropylene-type resin compositions for gas injection molding and molding process

IN Katsube, Toraichi; Kakihara, Ichiro; Mori, Juki

PA Asahi Chemical Ind, Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07138421	A2	19950530	JP 1993-289143	19931118 <--
PRAI	JP 1993-289143		19931118	<--	

AB The title compns., having crystallization initiating temperature $\geq 75^\circ$ in cooling rate $150^\circ/\text{min}$, contain (a) 100 parts mixts. of 60-80% crystalline propylene-based polymers having melt flow rate (MFR) ≥ 3 g/10 min, 3-30% ethylene-propylene rubber, ethylene-1-butene rubber, and butadiene-styrene (block) rubber, and 5-30% talc with average particle size (P) $\leq 5 \mu\text{m}$ and (b) 0.01-3 parts crystallization-accelerating organic compds. The components are fused, subjected to injection into cavity and to gas

injection optionally associated with the fused **resins** to give hollow moldings. Thus, 7:93 ethylene-propylene block copolymer (MFR 6 g/10 min) 80, EP 07P 15, and talc (P 2 μ m) 5 parts were mixed to give title composition, which was subjected to gas injection molding to give a hollow test piece showing flexural modulus 13,500 kg/cm², Izod impact resistance 8 kg-cm/cm at -30°, and crystallization initiation temperature 76°.

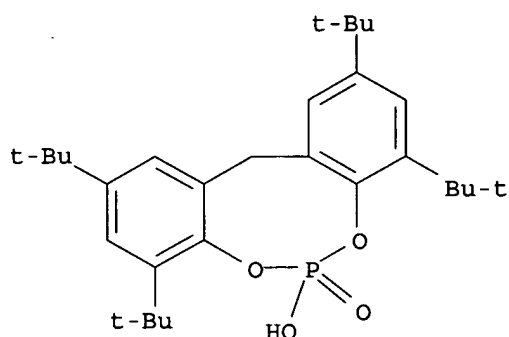
IT 85209-91-2, Mark NA 11

RL: MOA (Modifier or additive use); USES (Uses)

(crystallization agents; crystalline propylene polymers containing rubbers, crystallization agents, and talc for gas injection molding)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 52 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1995:403487 HCAPLUS

DN 122:189399

TI Transparent propylene polymer compositions with good dispersibility of nucleators

IN Kato, Yoshinao; Kimura, Masao

PA Shinnittetsu Kagaku, Japan; Shinnippon Seitetsu KK

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

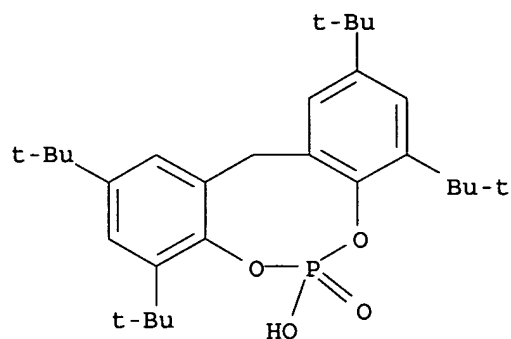
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06322195	A2	19941122	JP 1993-111995	19930514 <--
PRAI	JP 1993-111995		19930514	<--	

AB Title compns., useful for packaging materials and vessels, contain 80-100 parts propylene polymers, 0.005-3.0 parts metal salts of aromatic phosphoric acids as nucleators, and 2-20 parts aliphatic or alicyclic hydrocarbon **resins** [softening point (A) 70-160°]. Thus, RB 410 (polypropylene) 93, ADK Stab NA 11 [Na 2,2-methylenebis[4,6-di(tert-butyl)phenyl]phosphate] 0.3, a hydrogenated coumarone-indene **resin** (hydrogenation degree 99%, A 100°) 7, and Irganox 1010 0.1 part were mixed, pelletized at 210°, and injection molded at 220°

and 50 kg/cm² to give a 1.2-mm test piece showing haze 20%.

IT 85209-91-2, ADK Stab NA 11
 RL: MOA (Modifier or additive use); USES (Uses)
 (nucleators; transparency-improved propylene polymer blends with good dispersibility of nucleators)
 RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)

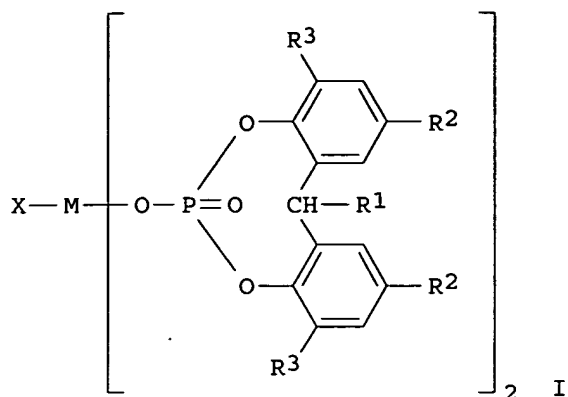


● Na

L87 ANSWER 53 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:246600 HCAPLUS
 DN 122:11550
 TI Crystalline synthetic resin compositions with improved transparency and mechanical properties
 IN Kimura, Ryoji; Tuboi, Tetuo; Nishikawa, Kazunori
 PA Asahi Denka Kogyo Kabushiki Kaisha, Japan
 SO U.S., 8 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5342868	A	19940830	US 1993-26479	19930304 <--
	JP 05156078	A2	19930622	JP 1991-322153	19911205 <--
	JP 3046428	B2	20000529		
	ES 2118847	T3	19981001	ES 1993-105144	19930329 <--
PRAI	JP 1991-322153	A	19911205	<--	
	EP 1993-105144	A	19930329	<--	

GI



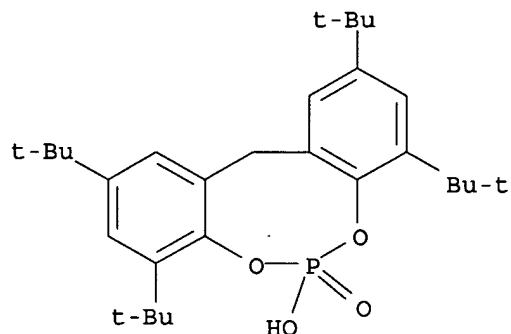
AB The compns. comprise 100 parts a crystalline synthetic resin (such as ethylene-propylene copolymer) compounded with 0.01-5 part ≥ 1 alkali metal carboxylates, alkali metal β -diketonates and alkali metal salts of β -ketoacetic esters, and 0.01-5 part I [R1 = H, C1-4 alkyl; R2, R3 = H, C1-12 alkyl; M = Group III or IV metal; X = OH when M represents a Group III metal; X = O or (OH)2 when M represents a Group IV metal]. The compns. can be used for packaging materials, and coated molded articles.

IT 85209-91-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with aluminum trichloride)

RN 85209-91-2 HCAPLUS

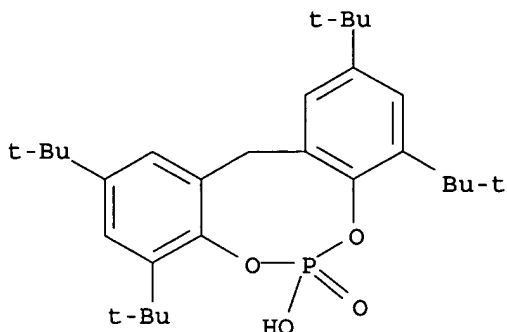
CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 54 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1995:219451 HCAPLUS
DN 122:11230
TI Nucleating agents for plastics
AU Takahashi, Masayuki
CS Asahi Denka Kogyo K. K., Tokyo, 116, Japan
SO Purasuchikkusu (1994), 45(11), 73-5
CODEN: PRSKAW; ISSN: 0555-7887

DT Journal; General Review
 LA Japanese
 AB A review with 5 refs. Morphol. of an ADK Stab NA 11-containing polypropylene sheet and improvement of heat resistance, rigidity, transparency, and moldability of polypropylene by the crystal nucleating agent are described.
 IT 85209-91-2, ADK Stab NA 11
 RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
 (morphol. and properties of crystal nucleating agent-containing polypropylene)
 RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 55 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1994:657129 HCAPLUS
 DN 121:257129
 TI Polyester blends having thermally stable transparency
 IN Okamoto, Tomohiro; Taniguchi, Toshiro
 PA Kuraray Co, Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06107930	A2	19940419	JP 1992-256467	19920925 <--
PRAI	JP 1992-256467		19920925	<--	

AB The title blends useful for molding are obtained from a crystalline poly(butylene terephthalate) resin having heat of crystallization (ΔH ; as measured by cooling a melt of 290° at a rate of 10°/min) ≥ 30 J/g, an amorphous polyester of 1,4-cyclohexanedimethanol (I), ethylene glycol (II), terephthalic acid (III) and other dicarboxylic acids, and phosphates PO₄MR₁R₂ (M = alkali metal; R_{1,2} = Ph bearing a tert-alkyl group on para-position, and ≥ 1 alkyl group on ortho-positions; 2 of ortho-substituting groups of R₁ and R₂ can be linked by a CH₂ group). A blend of 1,4-butanediol-(di-Me isophthalate-di-Me terephthalate 10:90 mixture) copolymer (ΔH 42 J/g) 75, I-II-III copolymer 25, and Na

2,2-methylenebis(4,6-di-tert-butylphenyl) phosphate 0.01 part gave an injection molding with good transparency.

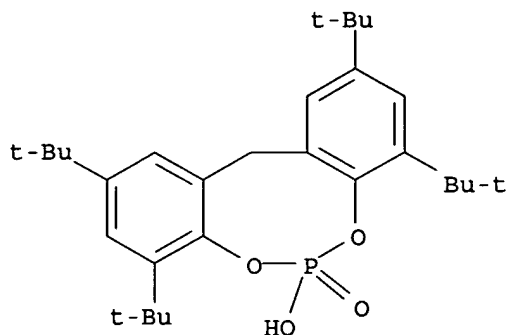
IT 85209-91-2

RL: USES (Uses)

(stabilizers, for crystalline and amorphous polyester blends)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 56 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1994:632323 HCAPLUS

DN 121:232323

TI Heat- and impact-resistant syndiotactic polystyrene compositions with good mechanical properties

IN Okada, Akihiko; Mihara, Masami; Takamatsu, Keiji

PA Idemitsu Kosan Co, Japan

SO Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06116454	A2	19940426	JP 1992-268770	19921007 <--
PRAI	JP 1992-268770		19921007 <--		

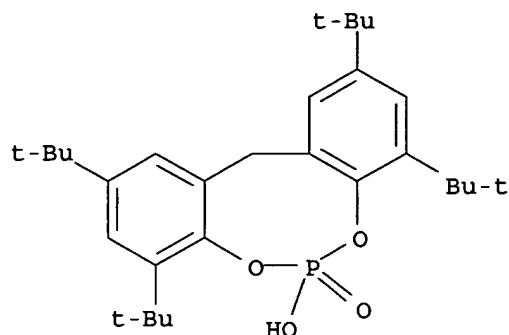
AB The compns., having improved adhesion with inorg. fillers and good compatibility with other **resins**, contain (A) syndiotactic styrene polymers, (B) a rubbery elastomer, (C) a thermoplastic **resin** bearing polar group and having good compatibility with A, (D) surface-treated inorg. fillers, (E) nucleating agents, and (F) acidic or basic catalysts for the reaction of C and D. Molding syndiotactic polystyrene 58, maleated styrene-p-methylstyrene copolymer 5, Kraton G 1651 7, Na methylenebis(2,4-di-tert-butylphenyl) acid phosphate (NA 11) 0.5, Al distearate 0.5, antioxidants 0.2, aminosilane-treated glass fibers 30 parts gave test pieces having notched Izod impact strength 12.5 kJ/m², and heat distortion temperature (18.5 kg) 258°.

IT 85209-91-2, NA 11

RL: MOA (Modifier or additive use); USES (Uses)

(nucleating agent; heat- and impact-resistant syndiotactic polystyrene compns. with good mech. properties)

RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 57 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1994:484956 HCAPLUS
 DN 121:84956
 TI Polypropylene resin compositions with good mechanical strength and flexibility
 IN Yamamoto, Yasushi; Kitajima, Yoshuki
 PA Tokuyama Soda Kk, Japan
 SO Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

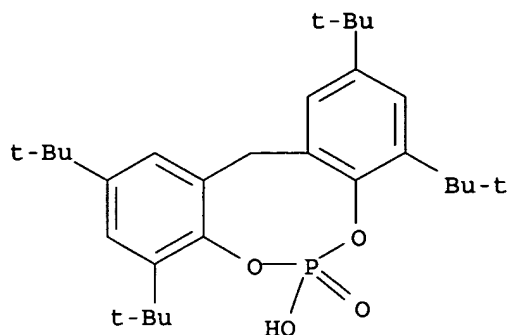
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06093166	A2	19940405	JP 1992-242088	19920910 <--
	JP 3151064	B2	20010403		
PRAI	JP 1992-242088		19920910	<--	

AB The title compns. comprise 100 parts organic peroxide-decomposition products of propylene (I) block copolymers with weight-average mol. weight (Mw) $\geq 600,000$ and containing $\leq 1.0\%$ components with mol. weight $\leq 10,000$ (component A) composed of 0.01-5% polybutene components, 1-70% polypropylene components, and 25-98.99% (15-80):(85-20) mol ratio ethylene (II)-I random copolymer components, and 0.05-2 parts nucleating agents. Thus, 1-butene, I, and II were polymerized in multi steps in the presence of $TiCl_3$ and organic

Al compds. to give a block copolymer with Mw = 190 + 104 containing polybutene component 0.19%, polypropylene component 14%, and II 38 mol%, and component A 0.3%. , 30 kg of which was mixed with 0.20 part (per 100 resin) 1,3-bis(tert-butylperoxyisopropyl)benzene and 0.30 part (per 100 resin) Al p-tert-butylbenzoate, then melt kneaded, pelletized, then injection molded to give test pieces, which showed flexural modulus 930 kg/cm², tensile strength 114 kg/cm², and Vicat softening temperature 83°.

IT 85209-91-2
 RL: USES (Uses)
 (nucleating agents, propylene block copolymer compns. containing)

RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 58 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1994:437020 HCAPLUS
 DN 121:37020
 TI Vinyl chloride resin compositions for films
 IN Kamitsubara, Yuzuru
 PA Chisso Corp, Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06073254	A2	19940315	JP 1992-248565	19920825 <--
PRAI	JP 1992-248565		19920825	<--	

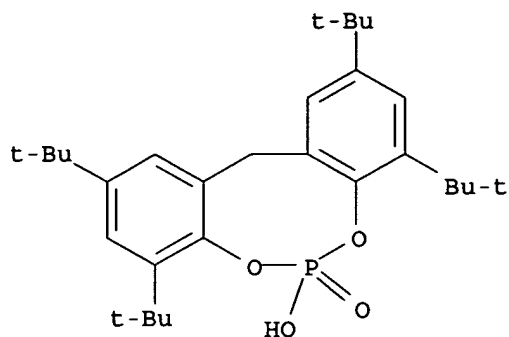
AB The title compns., useful for transparent films with good modulus, rigidity, and feel, contain 100 parts PVC, 0.07-10 parts compds. selected from aryl phosphates, benzylidene sorbitol, and benzoate hydroxy metal salts, and optionally 1-200 parts plasticizers. A mixture of PVC (d.p. 1300) 100, DOP 48, Ca-Zn stabilizer 2.0, and tricresyl phosphate 5.0 parts was roll kneaded to give a 0.075-mm film showing maximum curvature torque 1.1 g-cm, 1% tensile modulus 1.65 kg/mm², and haze 4.2%.

IT 85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate

RL: USES (Uses)

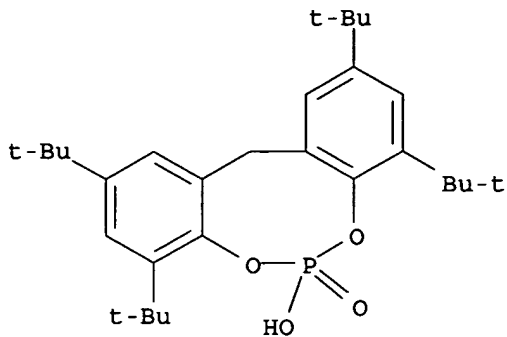
(PVC compns. containing, for transparent films with good modulus, ADK Stab NA 11UY)

RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 59 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1994:271944 HCAPLUS
 DN 120:271944
 TI A new organophosphorous type nucleating/clarifying agent for polypropylene
 AU Haruna, T.; Tobita, E.
 CS Asahi Denka Kogyo K.K., Urawa, 336, Japan
 SO Annual Technical Conference - Society of Plastics Engineers (1992
), 50th(2), 2029-34
 CODEN: ACPED4; ISSN: 0272-5223
 DT Journal
 LA English
 AB Alkali metal and alkaline earth 2,2'-methylenebis(4-alkylphenyl) phosphate
 mixts. with polypropylene (I) were extruded, molded, and studied to
 examine the nucleating/clarifying efficiency of the salts. The presence
 of these salts in I improved clarity and phys. properties, and the
 efficiency depended on both the metal ions and substituents of the salts.
 The salts with alkyl being Bu were the most suitable, and Na
 2,2'-methylenebis-4-butylphenyl phosphate increased crystalline temperature and
 heat-deflection temperature of I more than other salts and improved stiffness
 and transparency of I.
 IT 85209-91-2, ADK Stab NA 11
 RL: PRP (Properties)
 (nucleating/clarifying agents, for polypropylene, thermal and mech.
 properties and transparency in relation to)
 RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-
 dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 60 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1993:148774 HCAPLUS

DN 118:148774

TI Lightweight resin compositions and automotive interiors using the same

IN Kawamura, Takanobu; Sudo, Masahiro; Chiku, Shinji; Oka, Takahiro; Umemoto, Yoshiro; Iwakiri, Masaji; Aozuka, Kazunori

PA Chisso Corp., Japan; Toyota Motor Corp.

SO Jpn. Kokai Tokkyo Koho, 10 pp.

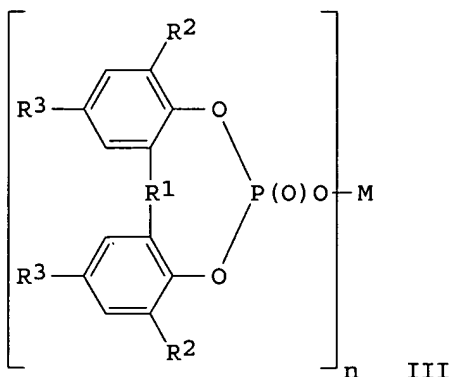
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04270753	A2	19920928	JP 1991-53979	19910226 <--
PRAI	JP 1991-53979		19910226 <--		
GI					



AB The title compns. having good rigidity, high-temperature rigidity, and impact strength comprise (1) stepwise-polymerized highly crystalline ethylene-propylene

block copolymer with specified composition parameters and flow properties, (2) 0-10% ethylene-propene rubber (40-60% ethylene) with Mooney viscosity (100°) <50, (3) 10-16% superfine talc (diameter 1.5-0.1 μm, >4-μm content ≤4%), and (4) 0.01-1% (based on 1 + 2 + 3) phosphate I (R1 = direct bond, S, C1-4 alkylidene; R2, R3 = H, C1-8 alkyl; M = metal; n = 1-3), with overall melt flow rate ≥20. Na

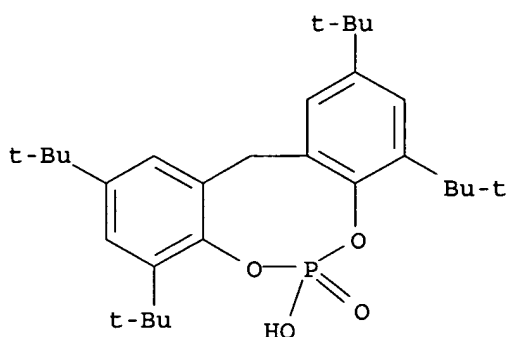
IT 85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate

RL: USES (Uses)

(lightwt. polyolefin compns. containing talc and, rigid, impact-resistant, for automotive interiors)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 61 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1992:471005 HCAPLUS

DN 117:71005

TI Crystalline synthetic resin compositions

IN Haruna, Toru; Hida, Etsuo; Takeuchi, Takashi

PA Asahi Denka Kogyo K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

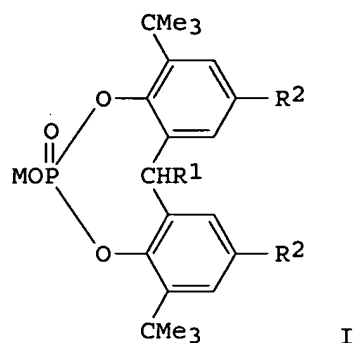
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04055472	A2	19920224	JP 1990-166415	19900625 <--
	JP 2919564	B2	19990712		
PRAI	JP 1990-166415		19900625	<--	
OS	MARPAT 117:71005				
GI					



AB The title compns. with improved workability, strength, transparency, etc., are obtained by adding 0.005-5 parts alkali metal salts of alkylidene bisphenol cyclic phosphates I (R1 = H, C1-4 alkyl; R2 = H, C1-9 alkyl; M = alkali metal) and 0.005-5 parts microgranular silicic acid anhydride having average size $\leq 1 \mu\text{m}$ to 100 parts crystalline synthetic resins. Thus, a propylene copolymer 100, tetrakis[methylene- β -(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]methane 0.1, tris(2,4-di-tert-Bu phenyl)phosphite 0.1, Ca stearate 0.05, Aerosil 200 (average size 12 nm) 0.1, and I (R1 = H, R2 = CMe3, M = Na) 0.2 part were blended, pelletized, and molded to give a test piece having haze value 6% and Izod impact strength 6.1 kg-cm/cm².

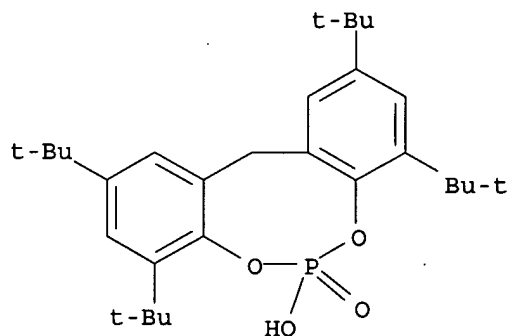
IT 85209-91-2

RL: USES (Uses)

(crystalline resins containing, for workability and strength and transparency)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 62 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1992:449903 HCAPLUS

DN 117:49903

TI Stabilized polyolefin resin compositions

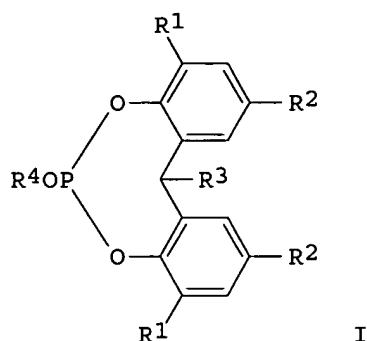
IN Haruna, Toru; Takahashi, Masayuki; Takeuchi, Takashi

PA Asahi Denka Kogyo K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03217441	A2	19910925	JP 1990-12124	19900122 <--
	JP 2791704	B2	19980827		
PRAI	JP 1990-12124		19900122	<--	
GI					



AB Transparent title compns. with good stability to heat and radiation contain 0.001-10 parts cyclic phosphites I (R1 = Me3C, tertiary amyl; R2 = C1-9 alkyl; R3 = H, C1-4 alkyl; R4 = C1-30 alkyl) and 0.01-5 parts aromatic phosphate metal salts, dibenzylidenesorbitols, and/or aromatic carboxylic acid Al salts (based on 100 parts polyolefins). Thus, 100 parts polypropylene was mixed with tetrakis[methylene-3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionato]methane 0.1, Ca stearate 0.05, 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate Na salt 0.1, and I (R1 = R2 = CMe3, R3 = H, R4 = Me) 0.1 part, extruded at 250°, pelletized, then injection molded at 250° to give test pieces, which showed thermal stability at 160° 354 h, and yellowing degree after 72-h irradiation by luminescent lamp 7.4.

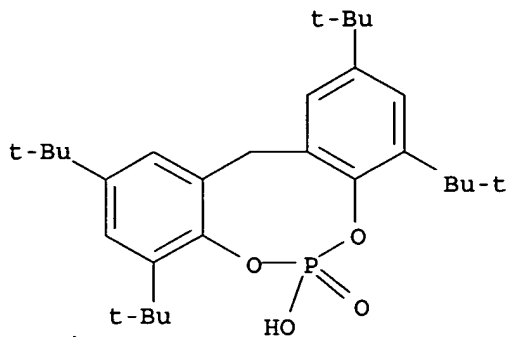
IT 85209-91-2

RL: USES (Uses)

(polyolefin compns. containing cyclic phosphites and, for good stability to heat and radiation)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 63 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1991:123872 HCAPLUS
 DN 114:123872
 TI Styrene resin molding compositions
 IN Nakano, Akikazu; Sumitomo, Takashi
 PA Idemitsu Kosan Co., Ltd., Japan
 SO Eur. Pat. Appl., 21 pp.
 CODEN: EPXXDW

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 382064	A1	19900816	EP 1990-101857	19900131 <--
	EP 382064	B1	19971126		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	JP 02202939	A2	19900813	JP 1989-22587	19890202 <--
	JP 2812972	B2	19981022		
	EP 779329	A2	19970618	EP 1997-103074	19900131 <--
	EP 779329	A3	19971229		
	EP 779329	B1	20010509		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	AT 160578	E	19971215	AT 1990-101857	19900131 <--
	AT 201034	E	20010515	AT 1997-103074	19900131 <--
	US 5034441	A	19910723	US 1990-559971	19900727 <--
PRAI	JP 1989-22587	A	19890202	<--	
	US 1990-470975	B2	19900126	<--	
	EP 1990-101857	A3	19900131	<--	

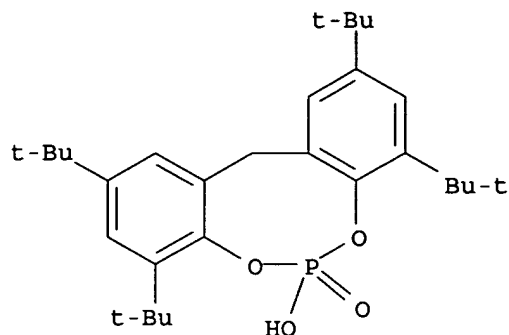
AB Molding compns. with good mold release, gloss, bending strength and modulus, and heat resistance contain syndiotactic styrene polymers 100, nucleating agents (organic P compds., soaps) 0.01-15, and polyoxyaklylenes and/or fatty acids or derivs. 0.01-15 parts. Thus, a blend of syndiotactic polystyrene (I) 100, pentaerythritol bis[(2,6-di-tert-butyl-4-methylphenyl) phosphite] 0.7, BHT 0.1, and polyoxyethylene di-Me ether 4 parts had good mold release, gloss 100%, bending strength 1010 kg/cm², bending modulus 41,000 g/cm², and Vicat temperature 245°; vs. poor 60, 890, 37,400, and 224, resp., for I alone.

IT 85209-91-2

RL: USES (Uses)

(nucleating agents, for syndiotactic styrene polymer moldings)

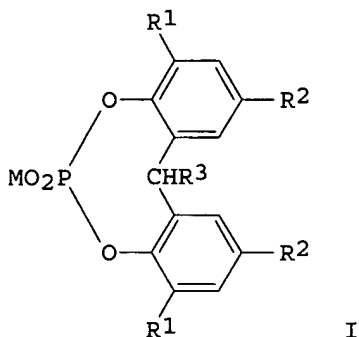
RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 64 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1990:499071 HCAPLUS
 DN 113:99071
 TI Crystalline polymers containing alkali metal bisphenol cyclic phosphates
 IN Haruna, Toru; **Takahashi, Masayuki**; Takeuchi, Takashi
 PA Adeka Argus Chemical Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02073837	A2	19900313	JP 1988-225789	19880909 <--
PRAI	JP 1988-225789		19880909	<--	
GI					



AB Transparent and impact-resistant title compns. contain 100 parts crystalline polymers and 0.005-5 parts bisphenol cyclic phosphate salts I (R1-2 = C1-9 alkyl; R3 = H, C1-4 alkyl; M = alkali metal) having average particle size (P)

≤10 μm. Thus, a composition comprising Profax 6501 100, Ca stearate 0.05, tetrakis[methylene-β-(3,5-di-tert-butyl-4-hydroxyphenyl)propionato]methane 0.1, and I (R1-2 = tert-Bu; M = Na) (II, P 3 μm) 0.1 part was roll-kneaded at 180° for 5 min and compression-molded at 180° for 5 min to give a test piece having haze (ASTM D-1003-61) 17% and Izod impact resistance 6.4 kg-cm/cm², vs. 48 and 4.2, resp., for the test piece without II.

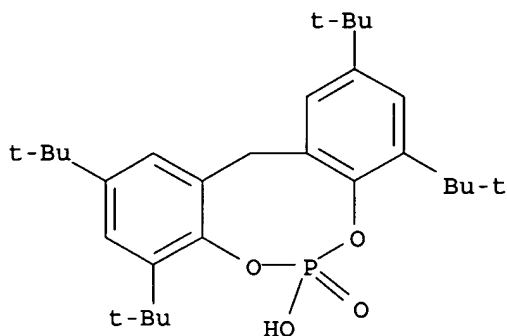
IT 85209-91-2

RL: USES (Uses)

(crystalline polymers containing, with transparency and impact resistance)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 65 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1990:57778 HCAPLUS

DN 112:57778

TI Transparent and antiblocking stretched propylene polymer films

IN Ishibashi, Tadao; Kugimya, Yoichi; Kuroda, Takashi

PA Chisso Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

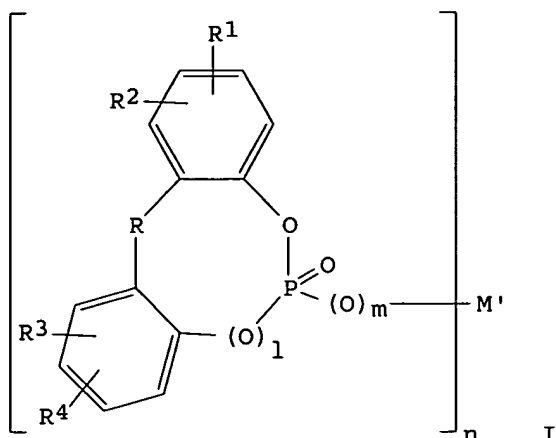
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01129050	A2	19890522	JP 1987-285262	19871113 <--
	JP 07113075	B4	19951206		
PRAI	JP 1987-285262		19871113	<--	
GI					



AB Mono- or biaxially stretched title films, useful for packaging materials, laminates, etc., comprise propylene polymers 100, P compds. I (R = direct bond, S, alkylidene; R1, R2 = H, alkyl, cycloalkyl; M1 = metal; l, m = 0, 1; n = valence of metal) 0.005-0.15, (R3CO2)2M2 (R3 = C14-18 alkyl, alkenyl; M2 = Group II metal) 0.01-0.40, and cured organic resin spherical microparticles (average size $\leq 5 \mu\text{m}$) 0.01-0.5 part. Thus, crystalline polypropylene 100, BHT 0.12, tetrakis[methylene 3-(2',5'-di-tert-butyl-4'-hydroxyphenyl)propionate]methane 0.12, I (R = CH2, R1 = R3 = 2-CMe3, R2 = R4 = 4-CMe3, M = Na, l = m = n = 1, average size $7.0 \mu\text{m}$) (II) 0.01, Ca stearate (III) 0.03, and Me silsesquioxane (IV, sphericity 1.06-1.12, average size $1.6 \mu\text{m}$) 0.04 part were blended, melt kneaded, pelletized, and extruded into a 0.9-mm sheet, which was biaxially stretched and heat set at 3% relaxation to give a $30\text{-}\mu\text{m}$ film with haze (of 4 laminated films) 3.8%, good appearance, static friction coefficient 0.35, and blocking 120 g/4 cm², vs., 8.4, poor, 0.85, and 1100, resp., without II, III, and IV.

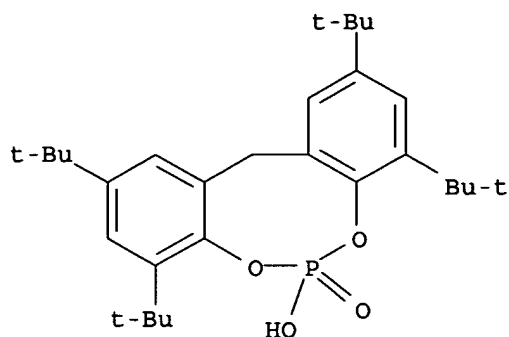
IT 85209-91-2

RL: USES (Uses)

(propylene polymer films containing, with good transparency and antiblocking property)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 66 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1989:555149 HCAPLUS
 DN 111:155149
 TI Styrene-based resin composition with short mold cycle time at
 low molding temperature
 IN Yamasaki, Komei; Sumitomo, Takashi; Ijitsu, Toshikazu; Yamada, Hiroshi;
 Furusawa, Toshihiro
 PA Idemitsu Kosan Co., Ltd., Japan
 SO Eur. Pat. Appl., 23 pp.
 CODEN: EPXXDW

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 312976	A2	19890426	EP 1988-117305	19881018 <--
	EP 312976	A3	19900801		
	EP 312976	B1	19940119		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	JP 01108244	A2	19890425	JP 1987-262628	19871020 <--
	JP 07091427	B4	19951004		
	JP 01182347	A2	19890720	JP 1988-3843	19880113 <--
	JP 01201350	A2	19890814	JP 1988-23745	19880205 <--
	JP 2583551	B2	19970219		
	WO 8903857	A1	19890505	WO 1988-JP1040	19881012 <--
	W: AU, FI, KR, US				
	AU 8825463	A1	19890523	AU 1988-25463	19881012 <--
	AU 605383	B2	19910110		
	AT 100482	E	19940215	AT 1988-117305	19881018 <--
	ES 2050136	T3	19940516	ES 1988-117305	19881018 <--
	CA 1338991	A1	19970311	CA 1988-580559	19881019 <--
	FI 8903010	A	19890619	FI 1989-3010	19890619 <--
	FI 97897	B	19961129		
	FI 97897	C	19970310		
	US 5322869	A	19940621	US 1991-810369	19911218 <--
PRAI	JP 1987-262628	A	19871020	<--	
	JP 1988-3843	A	19880113	<--	
	JP 1988-23745	A	19880205	<--	
	WO 1988-JP1040	A	19881012	<--	
	EP 1988-117305	A	19881018	<--	

US 1989-364430 B1 19890518 <--
 US 1991-751594 B1 19910821 <--

OS MARPAT 111:155149

AB Chem-, heat-, and solvent-resistant injection molded pieces are prepared from compns. containing 100 parts syndiotactic styrene-based polymer and 0.01-25 parts nucleating agents selected from organic acid metal salt (<50 μm), inorg. compds. (<50 μm), organophosphorus compds. (<50 μm), and ionomers. Syndiotactic polystyrene (tacticity 96%, prepared in PhMe in the presence of Me aluminoxane-cyclopentadienyltitanium trichloride catalyst) (100 parts) and 0.1 part Al p-(tert-butyl)benzoate (I) (0.5 μm) were mixed, melted at 300°, compression molded at 300°, and injection molded into test pieces having excellent mold (die 120°) release and appearance. The resin had crystallization induction time 1.1 s and 0.78 s at 80° and 150°, resp., vs. no crystallization and 5.0, resp., without I.

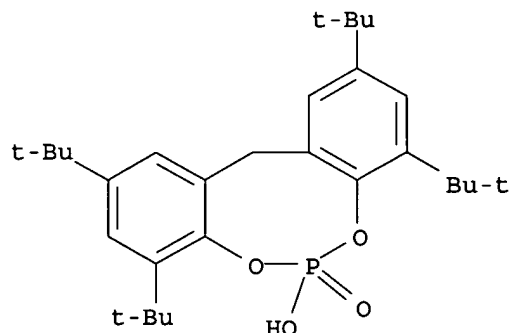
IT 85209-91-2

RL: USES (Uses)

(nucleating agents, for syndiotactic polystyrene moldings with low molding temps.)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L87 ANSWER 67 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1987:50459 HCAPLUS

DN 106:50459

TI Diaryl phosphate metal salts

IN Tajima, Kenji; Takahashi, Masayuki

PA Adeka Argus Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

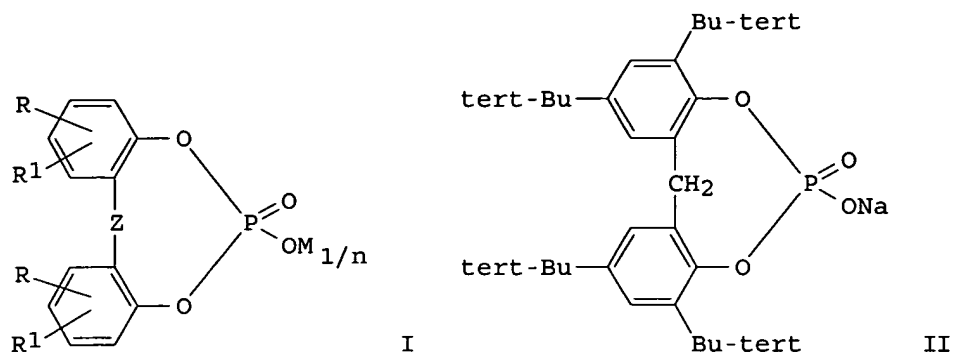
DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61210090	A2	19860918	JP 1985-49712	19850313 <--
	JP 05060472	B4	19930902		
PRAI	JP 1985-49712		19850313	<--	
GI					

PI JP 59184252 A2 19841019 JP 1983-58993 19830404 <--
 JP 04059344 B4 19920922
 PRAI JP 1983-58993 19830404 <--
 GI



AB Crystallization of thermoplastic polyesters is accelerated by the addition of 0.001-10% I (R,R1 = H, alkyl, aralkyl, aryl, alkylaryl; Z = direct bond, alkylidene, S; M = metal; n = valence of metal), which are compatible with polyesters for easy uniform mixing. Thus, 100 parts poly(ethylene terephthalate) [25038-59-9] and 1 part II [85209-91-2] were kneaded and pelletized to obtain a composition which showed heating and cooling crystallizing temps. 116° and 221°, resp., vs. 142° and 186°, resp., without II, and 125° and 204°, resp., using BzONa instead of II.

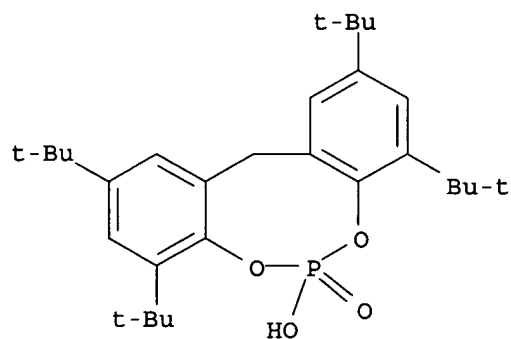
IT 85209-91-2

RL: USES (Uses)

(crystallization accelerators, for polyesters)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



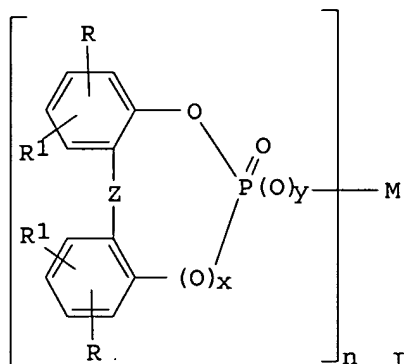
● Na

L87 ANSWER 69 OF 69 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1983:144527 HCAPLUS

DN 98:144527
 TI Bis-phenol phosphates, phosphonates and phosphinates as clarifiers for polyolefin resins
 IN Nakahara, Yutaka; Akutsu, Mitsuo; Haruna, Tohru; Takahashi, Masayuki
 PA Adeka Argus Chemical Co., Ltd., Japan
 SO Eur. Pat. Appl., 82 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 68326	A2	19830105	EP 1982-105308	19820616 <--
	EP 68326	A3	19830525		
	EP 68326	B1	19860219		
	R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
	JP 58001736	A2	19830107	JP 1981-98816	19810625 <--
	JP 63008980	B4	19880225		
	US 4463113	A	19840731	US 1982-379821	19820520 <--
	AT 18053	E	19860315	AT 1982-105308	19820616 <--
PRAI	JP 1981-98816	A	19810625	<--	
	EP 1982-105308	A	19820616	<--	

GI



AB Bisphenol phosphates, phosphonates, and phosphinates, I, Z = C-C bond, S, alkylidene, cycloalkylidene; R, R' = C1-18 alkyl, C3-12 cycloalkyl; x = 0, 1; y = 0, 1 (at least 1 of x and y = 1) M = metal; n = valence of M, are clarifying agents for polyolefins. Thus, polypropylene [9003-07-0] 100, tetrakis[methylene-3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]methane 0.1, dilaurylthiodipropionate 0.2 and Na 2,2'-methylenebis(4,6-di-tert-butylphenyl) cyclic phosphate [85209-91-2] 0.2 part were roll milled 5 min at 180° at 250 kg/cm² to give specimens having haze value 42% and Izod impact strength 16.5 kg/cm/cm².

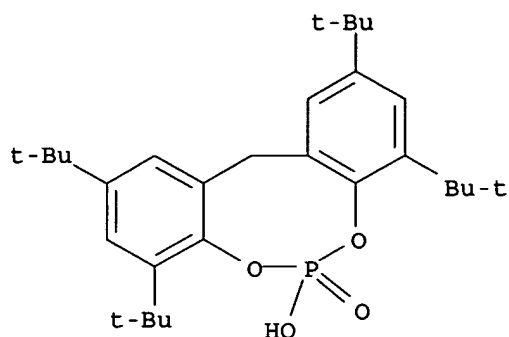
IT 85209-91-2

RL: USES (Uses)

(clarifying agents, for polyolefins)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

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L90 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:372921 HCAPLUS
 DN 140:376032
 TI Propylene diene copolymers
 IN Agarwal, Pawan Kumar; Weng, Weiqing; Mehta, Aspy K.; Dekmezian, Armenag
 H.; Chang, Main; Chudgar, Rajan K.; Davey, Christopher R.; Lin, Chon-Yie;
 Richeson, Galen C.; Arjunan, Palanisamy; Georjon, Olivier Jean
 PA USA
 SO U.S. Pat. Appl. Publ., 40 pp., Cont.-in-part of U.S. Ser. No. 788,811,
 abandoned.
 CODEN: USXXCO

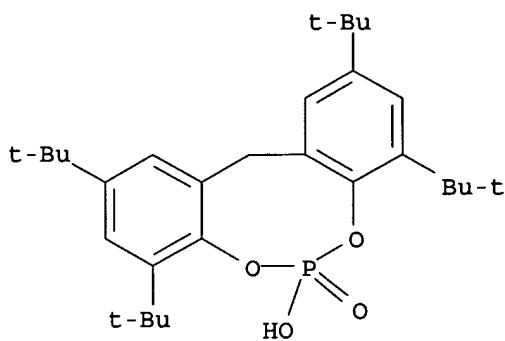
DT **Patent**
 LA English
 FAN.CNT 7

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004087750	A1	20040506	US 2003-602177	20030624 <--
	US 2001007896	A1	20010712	US 2000-734479	20001211 <--
	US 2002013440	A1	20020131	US 2001-788811	20010220 <--
PRAI	US 1999-458281	B2	19991210	<--	
	US 2000-734479	B2	20001211	<--	
	US 2001-788811	B2	20010220	<--	
	WO 2000-US33612	A2	20001211		

AB The copolymer. reaction of ≥ 1 olefin monomers, such as propylene,
 with α,ω -diene units and the resulting copolymers are
 provided. The copolymer may have 90-99.999% olefins and 0.001-2.000%
 α,ω -dienes. The copolymer may have weight average mol. weight
 50,000-2,000,000, crystallization temperature 115-135°, and melt flow rate
 0.1-100 dg/min. These copolymers may be employed in a wide variety of
 applications, the articles of which include, for example, films, fibers,
 such as spunbonded and melt-blown fibers, fabrics, such as nonwoven
 fabrics, and molded articles. The copolymer may further include at least
 two crystalline populations. The m.p. range of one of the crystalline
 populations
 is distinguishable from the m.p. range of another crystalline population by
 1-8°. One of the crystalline populations has m.p. 152-158° and
 another crystalline population has m.p. 142-148°. Thus, 0.5 mL 1 M

triethylaminium, 0.25 mL 1,9-decadiene, and 30 mmol hydrogen were fed into a reactor, 1 L propylene was added therein, 200 mg a catalyst comprising dimethylsilylbis(2-methyl-4-phenyl-indenyl)zirconium dichloride and methylaluminoxane and 200 cc propylene were added therein and polymerized to give a copolymer (yield 260 g) with melt flow rate 26 dg/min, Mn 19,000, Mw 167,000, m.p. 153.3°, crystallization temperature 122.6°, and recoverable compliance 1.86 + 10⁻⁴ cm²/dyne, which was mixed with 750 ppm Irganox 1010 and 250 ppm calcium stearate and injection-molded to give a test piece with tensile strength 5710 psi, 1% secant flexural modulus 311 kpsi, and heat distortion temperature 129°.

IT 85209-91-2, NA 11
 RL: MOA (Modifier or additive use); USES (Uses)
 (nucleating agent; preparation of propylene diene copolymers)
 RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L90 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2001:450939 HCAPLUS
 DN 135:46629
 TI Manufacture of propylene-ethylene block copolymers and their compositions for blow-molded articles
 IN Tanaka, Kenji; Sugita, Yasuhisa; Nakagawa, Masaru; Nakamura, Tetsuya
 PA Idemitsu Petrochemical Co. Ltd., Japan
 SO Eur. Pat. Appl., 29 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1108733	A1	20010620	EP 2000-125626	20001123 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	TW 593374	B	20040621	TW 2000-89124565	20001120 <--
	US 6313227	B1	20011106	US 2000-722005	20001127 <--
	JP 2001233923	A2	20010828	JP 2000-368583	20001204 <--
	CA 2328209	AA	20010617	CA 2000-2328209	20001214 <--
	CN 1300787	A	20010627	CN 2000-135977	20001215 <--
PRAI	JP 1999-359430	A	19991217	<--	

jan delaval - 18 october 2005

AB The block copolymers, having MFR 0.01-1.0 g/10 min and with good heat, drawdown and impact resistance, and high rigidity, contain: (A) 85-97% xylene-insol. fraction at 25°, and (B) 3-15% xylene-soluble fraction at 25°, wherein A has stereospecificity index $\geq 98.0\%$, intrinsic viscosity $[\eta]$ 2.5-5.5 dL/g, and a M_w which satisfy a relation with the content of fraction having a mol. weight ≤ 104.5 (S) as $S \leq -5.3 + 10 \cdot 6M_w + 7.58$, and B has ethylene unit 30-70%, intrinsic viscosity $[\eta]$ 2.5-9.0 dL/g. The copolymers are prepared by multi-stage polymerization and the blow-molded articles therefrom are useful

for

bumpers in automobiles.

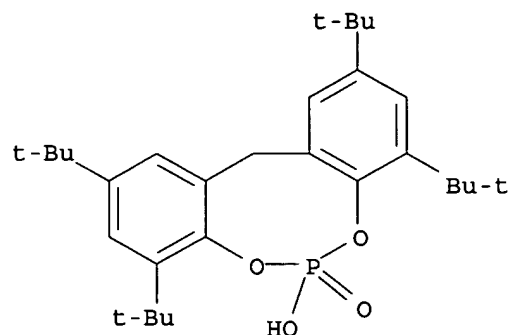
IT 85209-91-2, Adekastab NA 11

RL: MOA (Modifier or additive use); USES (Uses)

(crystal nucleating agents, ADK Stab NA 11; compns. of propylene-ethylene block copolymers for blow-molded articles)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon	1981	005	C-058	PATENT ABSTRACTS OF	
Anon	1986	010	C-383	PATENT ABSTRACTS OF	
Anon	1999	1999		PATENT ABSTRACTS OF	
Anon	2000	2000		PATENT ABSTRACTS OF	
Anon	2000	2000		PATENT ABSTRACTS OF	
Anon	2000	2000		PATENT ABSTRACTS OF	
Idemitsu Petrochem Co L	1981			JP 56032516 A	HCAPLUS
Idemitsu Petrochem Co L	1986			JP 61136546 A	HCAPLUS
Idemitsu Petrochem Co L	1999			JP 11130809 A	HCAPLUS
Idemitsu Petrochem Co L	1999			JP 11279369 A	HCAPLUS
Idemitsu Petrochem Co L	2000			JP 2000007853 A	HCAPLUS
Idemitsu Petrochem Co L	2000			JP 2000119480 A	HCAPLUS
Idemitsu Petrochemical	1999			WO 9965965 A	HCAPLUS
Idemitsu Petrochemical	2000			WO 0060004 A	HCAPLUS
Kasahara, T	1986			US 4565844 A	HCAPLUS
Sumitomo Chemical Co	1997			WO 9738033 A	HCAPLUS

L90 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:715629 HCAPLUS
 DN 133:282760
 TI Propylene-ethylene block copolymer compositions for automotive exterior parts
 IN Kobayashi, Yutaka; Tanaka, Kenji; Saeki, Yoshihisa
 PA Idemitsu Petrochemical Co., Ltd., Japan; Honda Motor Co., Ltd.
 SO Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese

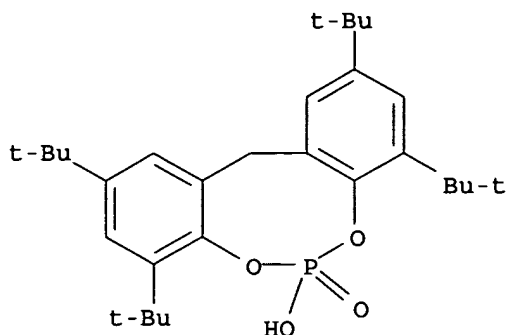
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000281735	A2	20001010	JP 1999-91644	19990331 <--
	WO 2000060004	A1	20001012	WO 2000-JP1949	20000329 <--
	W: US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1090957	A1	20010411	EP 2000-912913	20000329 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	US 6818690	B1	20041116	US 2000-701376	20001130 <--
PRAI	JP 1999-91644	A	19990331	<--	
	WO 2000-JP1949	W	20000329		

AB The comps. comprise 300-2000 ppm methylenebis(2,4-di-tert-butylphenol) phosphate sodium salt and propylene-ethylene block copolymer (I) with melt flow rate (MFR; 230°, 2.16 kg-load) 10-18 g/10 min, stereoregularity index mmmm fraction of xylene-insol. components ≥98.9%, and xylene-soluble content 22-28%, where ethylene content (x; %) in the xylene-soluble components and xylene-soluble T1 relaxation time (y; ms, measured by pulse NMR, single component) satisfy the relationship of $y \leq 0.0014x^3 - 0.0897x^2 - 1.0593x + 231.6$. Thus, Ziegler-Natta-catalyzed I (mmmm fraction 99.1%, MFR 12.7 g/10 min, xylene-soluble content 22.0%, y 146 ms) was kneaded with 1200 ppm nucleating agent (ADK Stab NA 11) and other additives and injection-molded to give a test piece, showing flexural modulus 1150 MPa, Izod impact strength 6.5 kJ/m² at -30°, and tensile elongation ≥500%.

IT 85209-91-2, ADK Stab NA 11
 RL: MOA (Modifier or additive use); USES (Uses)
 (nucleating agent; propylene-ethylene block copolymer comps. for automotive exterior parts)

RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphoslocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L90 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:126936 HCAPLUS

DN 130:169030

TI Manufacturing olefin (co)polymers with controlled molecular weight
 IN Ushioda, Tsutomu; Saito, Jun; Tsutsui, Mototake; Yasuda, Yoshitoyo;
 Fujita, Hiroyuki; Uwai, Toshihiro; Ohgi, Yoshiyuki; Adachi, Minoru;
 Morimoto, Yoshitaka; Hirose, Taketo; Kugimiya, Youichi; Taniguchi,
 Masahiko; Kuramochi, Hitoshi

PA Chisso Corporation, Japan

SO PCT Int. Appl., 88 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9907747	A1	19990218	WO 1998-JP3597	19980812 <--
	W:			AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
	RW:			GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
	AU 9886478	A1	19990301	AU 1998-86478	19980812 <--
	DE 19882607	T	20000727	DE 1998-19882607	19980812 <--
	TW 434267	B	20010516	TW 1998-87113276	19980812 <--
	US 6410662	B1	20020625	US 2000-485492	20000211 <--
PRAI	JP 1997-217899	A	19970812	<--	<--
	JP 1997-218756	A	19970813	<--	<--
	JP 1997-251689	A	19970917	<--	<--
	JP 1997-273577	A	19970919	<--	<--
	WO 1998-JP3597	W	19980812	<--	<--

OS MARPAT 130:169030

AB Olefin (co)polymers with controlled mol. weight from 30,000 to 10,000,000 and excellent rigidity, heat resistance and transparence, usable for various industrial parts, containers, films, sheets, fibers are manufactured by use of specific catalysts and selecting polymerization time. Thus, a catalyst 100 g from dimethylsilyl(2,3,5-trimethylcyclopentadienyl)(2',4',5'-

trimethylcyclopentadienyl)zirconium dichloride 0.39 g, methylaluminumoxane 267 mmol and silica 10 g was mixed with n-hexane 80 mL, trimethylaluminum 0.5 mmol and propylene was supplied and polymerized to give a polypropylene powder 15.5 g, showing MFR 93 g/10 min., mol. weight 86917, Mw/Mn 2.5.

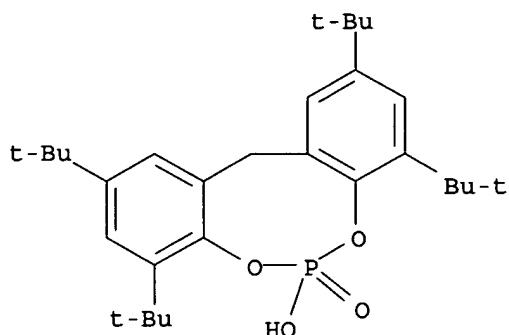
IT 85209-91-2, Sodium 2,2'-methylene-bis-(4,6-di-tert-butylphenyl)phosphate

RL: MOA (Modifier or additive use); USES (Uses)

(crystal nucleating agent; manufacturing olefin polymers with controlled mol. weight)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon				US 5629254 A	HCAPLUS
Anon				US 5658997 A	HCAPLUS
Anon				US 5705584 A	HCAPLUS
Anon				US 5710223 A	HCAPLUS
Anon				US 5723640 A	HCAPLUS
Anon				EP 629632 A2	HCAPLUS
Chisso Corp	1997			JP 09-048040 A	HCAPLUS
Chisso Corp	1997			JP 09-048858 A	HCAPLUS
Chisso Corp	1997			JP 09-110934 A	HCAPLUS
Chisso Corp	1997			JP 09-151214 A	HCAPLUS
Mitsui Petrochemical In	1995			JP 07-149833 A	HCAPLUS
Mitsui Petrochemical In	1996			JP 08-073532 A	HCAPLUS

L90 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:111757 HCAPLUS

DN 130:154435

TI Method of improving crystallization rate and temperature of syndiotactic polypropylene

IN Reddy, Baireddy Raghava; Kim, Sehyun; Shamshoum, Edwar S.

PA Fina Technology, Inc., USA; Atofina Research

SO Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 896022	A1	19990210	EP 1998-114796	19980806 <--
	EP 896022	B1	20040929		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 5969021	A	19991019	US 1997-910974	19970807 <--
	TW 418213	B	20010111	TW 1998-87112335	19980728 <--
	JP 11228707	A2	19990824	JP 1998-228552	19980730 <--
	AT 277967	E	20041015	AT 1998-114796	19980806 <--
	ES 2227748	T3	20050401	ES 1998-114796	19980806 <--
	CN 1209445	A	19990303	CN 1998-116255	19980807 <--
	CN 1122069	B	20030924		
PRAI	US 1997-910974	A	19970807	<--	

AB The title method comprises adding at least one of polytetrafluoroethylene, sodium 2,2-methylene-bis(4,6-di-tert-butylphenyl)phosphate, pimelic acid, and calcium pimelate, and compns. and products made thereby.

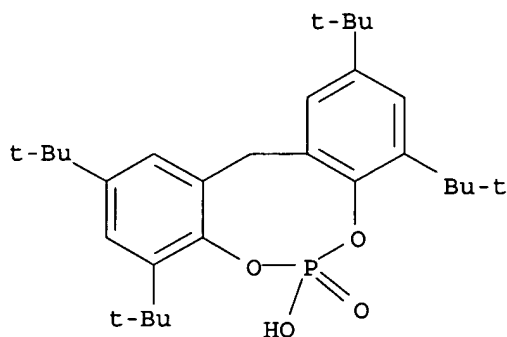
IT **85209-91-2**, Sodium 2,2'-methylene bis(4,6-di-tert-butylphenyl)phosphate

RL: MOA (Modifier or additive use); USES (Uses)

(method of improving crystallization rate and temperature of syndiotactic polypropylene)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Buckmaster	1997			US 5688457 A	HCAPLUS
Mitsui Toatsu	1991			EP 0419677 A	HCAPLUS
Mitsui Toatsu Chem Inc	1996			JP 08217928 A	HCAPLUS
Pcd	1995			DE 4420991 A	HCAPLUS

L90 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:34591 HCAPLUS

DN 130:140231

TI Propylene-type polymer composition with balanced heat sealability and

rigidity and food packaging film therefrom
 IN Minami, Hiroshi; Motegi, Yasuhiro; Okamoto, Takuji; Ohta, Takeshi;
 Funabashi, Hideo
 PA Idemitsu Petrochemical Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11001584	A2	19990106	JP 1997-222634	19970819 <--
	WO 9909098	A1	19990225	WO 1998-JP3645	19980817 <--
	W: CN, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1006149	A1	20000607	EP 1998-937841	19980817 <--
	R: BE, DE, FR, GB, IT, NL				
	TW 561160	B	20031111	TW 1998-87113500	19980817 <--
	US 6562886	B1	20030513	US 2000-463989	20000427 <--
PRAI	JP 1997-98719	A	19970416	<--	
	JP 1997-222634	A	19970819	<--	
	JP 1997-230611	A	19970827	<--	
	JP 1998-39960	A	19980223	<--	
	JP 1998-54957	A	19980306	<--	
	JP 1998-54958	A	19980306	<--	
	JP 1998-95931	A	19980408	<--	
	WO 1998-JP3645	W	19980817	<--	

AB The composition comprises (A) metallocene catalyst-polymerized propylene-type polymers (isotactic pentad ratio 80-99%) or propylene-ethylene and/or C4-20 α -olefin copolymers with polydispersity ≤ 3.5 , and limiting viscosity 0.5-5.0 dL/g and (B) ≥ 10 ppm nucleating agents. Preparing a polypropylene (viscosity 1.5 dL/g, polydispersity 1.9) using (1,2'-ethylene) (2,1'-ethylene)-bis(indenyl)hafnium dichloride catalyst, melt extruding with IRG 1010 750, IRG 168 750, Ca stearate 500, dimethylbenzylidene sorbitol (nucleating agent) 100, erucic acid amide 1000, and silica-type antiblocking agent 1800 ppm, extruding through a T-die and ageing for 24 h at 40° gave a film with flexural modulus 1.1 x 10³ MPa, heat sealing temperature 131°, and impact strength 3.2 J/m.

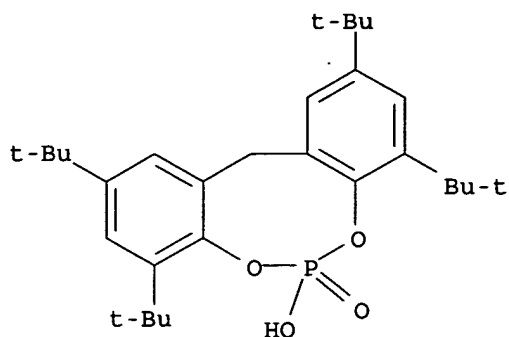
IT 85209-91-2, NA 11

RL: MOA (Modifier or additive use); USES (Uses)

(nucleating agent; propylene-type polymer composition with balanced heat sealability and rigidity and food packaging film therefrom)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g] [1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L90 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1998:768118 HCAPLUS
 DN 130:39591
 TI Polypropylene-based compositions for transparent moldings with good impact and whitening resistances
 IN Okayama, Chikashi; Nakajima, Takanori; Akitaya, Shinichi; Sumi, Yoshitaka
 PA Chisso Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10316727	A2	19981202	JP 1997-132177	19970522 <--
	TW 400341	B	20000801	TW 1998-87107312	19980512 <--
	EP 885926	A2	19981223	EP 1998-108923	19980515 <--
	EP 885926	A3	19990519		
	EP 885926	B1	20010321		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6319991	B1	20011120	US 1998-81678	19980520 <--
	CN 1200382	A	19981202	CN 1998-108334	19980521 <--
	CN 1130420	B	20031210		
PRAI	JP 1997-132176	A	19970522 <--		
	JP 1997-132177	A	19970522 <--		

AB Title compns. comprise 99-99.9999% polymer blends of (A) propylene (I)- α -olefin random copolymers (I content 90-99%) and (B) I- α -olefin random copolymers [I content 55-90%; intrinsic viscosity $[[\eta]B$ 1.3-3.5 dL/g; $[\eta]B/[\eta]A = 0.5-1.3$; product of $[[\eta]B/[\eta]A + (WA/WB) = 1.0-4.5$ $[[\eta]A =$ intrinsic viscosity of A; WA, WB = weight of A, B, resp.]]] and 0.0001-1% α -crystal nucleating agents. Thus, a composition containing polymer blend of 3:97 ethylene (II)-I copolymer and 25:75 II-I copolymer $[[\eta]B$ 2.1; $[\eta]B/[\eta]A = 1.0$; $[[\eta]B/[\eta]A + (WA/WB) 4.0]$ 100, Na-2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate 0.3, tetrakis[methylene-3-(3',5'-di-tert-butyl-4'-hydroxyphenyl)propionate]methane 0.1, and Ca stearate 0.1 part was pelletized and injection molded to give a specimen showing flexural modulus 650 MPa, haze 20%, Izod impact strength 40 and 5.5 at 0° and at -20°,

resp., and good impact whitening resistance.

IT 85209-91-2, Sodium 2,2'-methylene-bis(4,6-di-tert-butylphenyl) phosphate

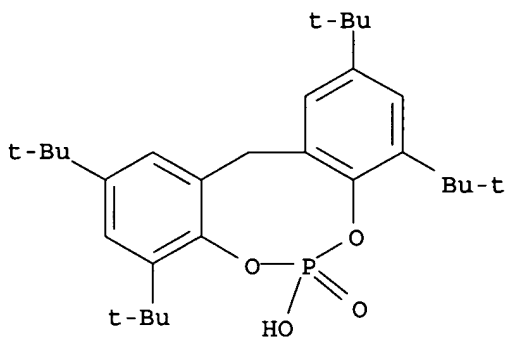
RL: MOA (Modifier or additive use); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(α -crystal nucleating agent; propylene-based polymer compns.

containing nucleating agents for moldings with good impact-whitening resistance)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

✓ L90 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:443357 HCAPLUS

DN 127:51579

TI Propylene polymer compositions, manufacture thereof, polypropylene compositions containing the same, molded articles therefrom, manufacture thereof

IN Okayama, Chikashi; Nakashima, Takanori; Kimura, Masami; Wakata, Mayumi; Kimura, Kazuhiro; Yamamoto, Toshiki; Ishii, Hirohisa; Sugimoto, Masataka; Gouda, Kunio; Mochizuki, Yasuhiro; Saito, Noriaki; Yokota, Junichiro; Kawano, Shouji; Nakagawa, Yasuhiko

PA Japan

SO PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9719135	A1	19970529	WO 1996-JP3433	19961122 <--
	W: AL, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IL, IS, JP, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	TW 486501	B	20020511	TW 1996-85114348	19961121 <--
	AU 9676387	A1	19970611	AU 1996-76387	19961122 <--
	EP 863183	A1	19980909	EP 1996-939302	19961122 <--

EP 863183 B1 20020403
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI

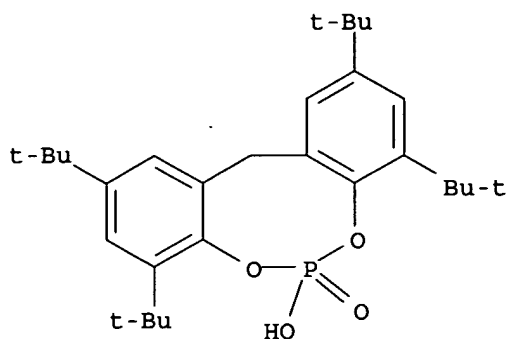
CN 1205726	A	19990120	CN 1996-199321	19961122 <--
CN 1109715	B	20030528		
BR 9611825	A	19990713	BR 1996-11825	19961122 <--
AT 215571	E	20020415	AT 1996-939302	19961122 <--
JP 2002249626	A2	20020906	JP 2001-353858	19961122 <--
JP 2003246900	A2	20030905	JP 2003-17213	19961122 <--
JP 3470337	B2	20031125	JP 1997-519600	19961122 <--
US 6300415	B1	20011009	US 1998-68949	19980814 <--

PRAI JP 1995-305292 A 19951124 <--
 JP 1996-35639 A 19960129 <--
 JP 1996-106365 A 19960402 <--
 JP 1996-174178 A 19960613 <--
 JP 1996-181141 A 19960621 <--
 JP 1996-209030 A 19960718 <--
 JP 1996-209031 A 19960718 <--
 JP 1997-519600 A3 19961122 <--
 WO 1996-JP3433 W 19961122 <--

AB The propylene polymer compns. comprise a propylene homopolymer (intrinsic viscosity $[\eta]_{PP}$) and a propylene/ethylene copolymer with intrinsic viscosity ($[\eta]_{RC}$) 1.7-2.8 dL/g at $[\eta]_{RC}/[\eta]_{PP}$ ratio 0.7-1.2, and the product of the homopolymer to copolymer weight ratio (WPP/WRC) and the intrinsic viscosity ratio thereof, $(WPP/WRC)+([\eta]_{RC}/[\eta]_{PP})$, being 1.0-3.0. Such compns are used for making various molded articles such as sheets, films, laminated films, hollow moldings, etc., having well-balanced properties among moldability, molding shrinkage, rigidity, flexibility, impact resistance particularly at low temps., transparency, gloss and blushing resistance. In the presence of stereospecific olefin polymerization catalysts, propylene is homopolymd. to form 60-78% of target production, then propylene is further polymerized together with ethylene to form a copolymer of ethylene content 25-55% to obtain propylene polymer compns. The compns. obtained are mixed with antioxidants and calcium stearate, pelletized, and injection molded.

IT 85209-91-2, Sodium 2,2'-methylenebis(4,6-di-tert-butylphenyl) phosphate
 RL: MOA (Modifier or additive use); USES (Uses)
 (propylene polymer compns. for moldings with well-balanced performance properties)

RN 85209-91-2 HCAPLUS
 CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L90 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1997:433422 HCAPLUS
 DN 127:52152
 TI Crimped conjugate fibers containing a nucleating agent
 IN Pike, Richard Daniel
 PA Kimberly-Clark Corporation, USA
 SO Can. Pat. Appl., 23 pp.
 CODEN: CPXXEB

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CA 2184626	AA	19970301	CA 1996-2184626	19960830 <--
	US 6203905	B1	20010320	US 1995-522479	19950830 <--
	US 5811045	A	19980922	US 1997-806159	19970225 <--
PRAI	US 1995-522479	A	19950830	<--	

AB A helically crimped conjugate fiber comprises at least a first composition and a second composition. The first and second compositions contain different thermoplastic polymers having different solidification periods, and at least one of the two compositions contains a nucleating agent. The level of crimps in the conjugate fiber can be controlled, and the fibers are useful in nonwoven fabrics. A fiber was prepared from Aspun 6811A containing TiO₂ and PD3445 containing TiO₂ and NA-11 nucleating agent.

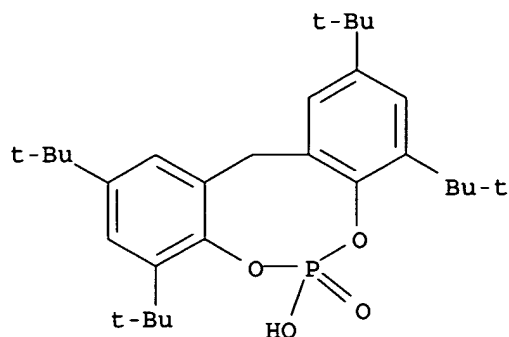
IT 85209-91-2, ADK Stab NA 11

RL: MOA (Modifier or additive use); USES (Uses)

(crimped conjugate fibers containing a nucleating agent)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L90 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:278925 HCAPLUS

DN 126:251596

TI Propylene-ethylene copolymer compositions and process for their production
IN Hayashida, Teruaki; Gima, Shinei; Hatada, Kouichi; Kojima, Osamu; Shimizu,
Ken; Nakajima, Hirokazu; Nomura, Takao; Kanome, Yoshihiro; et al.

PA Chisso Corp., Japan; Toyota Jidosha Kabushiki Kaisha

SO PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9708218	A1	19970306	WO 1996-JP2449	19960830 <--
	W: AL, AU, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2203876	AA	19970306	CA 1996-2203876	19960830 <--
	AU 9668382	A1	19970319	AU 1996-68382	19960830 <--
	AU 717990	B2	20000406		
	EP 790262	A1	19970820	EP 1996-928713	19960830 <--
	EP 790262	B1	20000510		
	R: BE, DE, FR, GB, IT, NL				
	CN 1169743	A	19980107	CN 1996-191163	19960830 <--
	CN 1119364	B	20030827		
	JP 3231332	B2	20011119	JP 1997-510129	19960830 <--
	TW 416962	B	20010101	TW 1996-85111469	19960919 <--
	US 6005034	A	19991221	US 1997-817850	19970430 <--
PRAI	JP 1995-248775	A	19950831	<--	
	JP 1996-119298	A	19960514	<--	
	JP 1996-120011	A	19960515	<--	
	JP 1996-120012	A	19960515	<--	
	WO 1996-JP2449	W	19960830	<--	
OS	MARPAT 126:251596				
AB	A propylene-ethylene copolymer (I) composition (melt flow rate 10-300 g/10 min) is prepared by a two-stage process. In the first stage (I) propylene is				

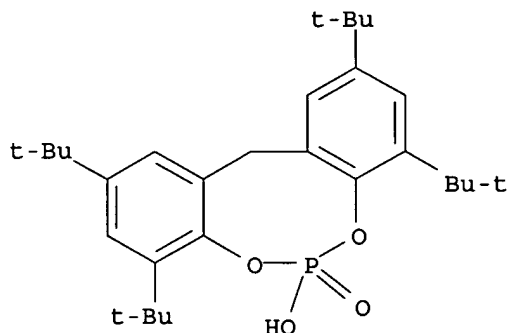
polymerized in the presence of a stereoregular polymerization catalyst and H to produce 60-95% (based on total I) of a propylene polymer with melt flow rate 100-1000 g/10 min and a ratio (Cf; the amount of the propylene polymer which dissolves in o-dichlorobenzene at a temperature <112° to the amount dissolved at temperature ≥112°; determined by measuring the amts. dissolved while raising the temperature of o-dichlorobenzene continuously or stepwise) of ≤0.5, the ratio (Cf) being an indication of the intramol. stereoregularity and mol. weight distribution of the polymer. In the second stage (II) propylene and ethylene are added to the propylene polymer produced in step (I) in such amts. that the ethylene content is 30-80% and then polymerized to produce 5-40% (based on the whole polymer) of an ethylene-propylene copolymer. The compns. have good moldability and balanced rigidity, tenacity, impact resistance, etc. The propylene-ethylene copolymer composition optionally comprises α-crystal and/or β-crystal nucleating agent.

IT 85209-91-2

RL: MOA (Modifier or additive use); USES (Uses)
(crystal nucleation agent; propylene-ethylene copolymer compns. and process for their production)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L90 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1991:123898 HCAPLUS

DN 114:123898

TI Nucleating agents for syndiotactic polypropylene

IN Asanuma, Tadashi; Shiomura, Tetsunosuke; Uchikawa, Nobutaka; Sasaki, Tateyo; Inoue, Takeo

PA Mitsui Toatsu Chemicals, Inc., Japan

SO PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9012843	A1	19901101	WO 1990-JP484	19900410 <--
	W: CA, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				

JP 03054238	A2	19910308	JP 1990-25984	19900207 <--
JP 3045741	B2	20000529		
CA 2030532	AA	19901019	CA 1990-2030532	19900410 <--
CA 2030532	C	19950801		
EP 419677	A1	19910403	EP 1990-905666	19900410 <--
EP 419677	B1	19951227		
R: BE, DE, ES, FR, GB, IT, NL				
ES 2081368	T3	19960301	ES 1990-905666	19900410 <--
US 5278216	A	19940111	US 1992-899141	19920617 <--
PRAI JP 1989-96346	A	19890418	<--	
JP 1989-96347	A	19890418	<--	
JP 1990-25984	A	19900207	<--	
WO 1990-JP484	W	19900410	<--	
US 1990-613732	B1	19901127	<--	

AB Syndiotactic polypropylene (I) containing nucleating agents has a high crystallization temperature and good stiffness. I containing 0.1 phr talc had flexural stiffness 6100 kg/cm², elongation 517%, notched Izod impact strength 14.2 kg-cm/cm, and crystallization temperature 105.4°; vs. 4700, 740, 14.1, and 96.8, resp., without talc.

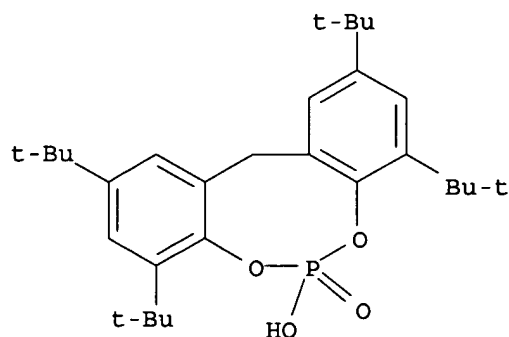
IT 85209-91-2

RL: USES (Uses)

(nucleating agents, for syndiotactic polypropylene)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

L90 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1989:76726 HCAPLUS

DN 110:76726

TI Glass fiber-reinforced polypropylene-poly-1-butene blends

IN Nomura, Manabu; Mizuno, Hirohide; Wada, Kaoru

PA Idemitsu Petrochemical Co., Ltd., Japan

SO Eur. Pat. Appl., 18 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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jan delaval - 18 october 2005

PI	EP 278409	A2	19880817	EP 1988-101647	19880204 <--
	EP 278409	A3	19900328		
	EP 278409	B1	19930915		
	R: DE, GB				
	JP 63193944	A2	19880811	JP 1987-26911	19870207 <--
	JP 08026192	B4	19960313		
	JP 01090238	A2	19890406	JP 1987-248685	19870930 <--
	JP 08013911	B4	19960214		
	CA 1318425	A1	19930525	CA 1988-558397	19880205 <--
	US 5030682	A	19910709	US 1989-387447	19890731 <--
PRAI	JP 1987-26911	A	19870207	<--	
	JP 1987-248685	A	19870930	<--	
	US 1988-153639	B1	19880205	<--	

AB Compns. with good processability to smooth, colorless moldings with good impact strength, stiffness, heat-distortion temperature, and hardness contain 15-80% C₃H₆ polymers, 20-60% poly-1-butene (I), 5-60% glass fibers, and optionally modified polyolefins or crystal nucleating agents. A smooth, colorless molding containing a blend of polypropylene with C₂H₄-C₃H₆ copolymer (6% C₂H₄) 35, I 35, and glass fibers 30 parts had flexural strength 628 kg/cm², Izod impact strength 14 kg-cm/cm, and heat-distortion temperature 124°; vs. 680, 6.8, and 132, resp. (with an extremely rough surface and distinct color) without I.

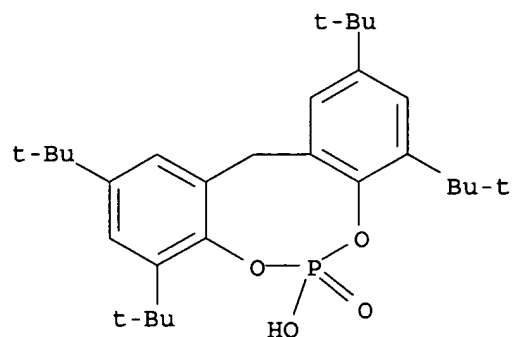
IT 85209-91-2

RL: USES (Uses)

(crystal nucleating agents, for glass fiber-reinforced polyolefin blends)

RN 85209-91-2 HCAPLUS

CN 12H-Dibenzo[d,g][1,3,2]dioxaphosphocin, 2,4,8,10-tetrakis(1,1-dimethylethyl)-6-hydroxy-, 6-oxide, sodium salt (9CI) (CA INDEX NAME)



● Na

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L1 1 S (WO2000-JP3912 OR JP99-168864)/AP,PRN
E TAKAHASHI/AU

jan delaval - 18 october 2005

L2 9 S E3
 E TAKAHASHI K/AU
 L3 1801 S E3-E11,E41
 E TAKAHASHI M/AU
 L4 2069 S E3-E7,E128-E130
 E TAKAHASHI S/AU
 L5 953 S E3-E6,E87
 E TAKAHASHI T/AU
 L6 2287 S E3-E10
 E TAKAHASHI TET/AU
 L7 321 S E20
 E MASAYUKI/AU
 L8 3 S E3,E47
 E TETSUYA/AU
 L9 3 S E3
 L10 3 S E44,E49
 E KAORI/AU
 E SAYURI/AU
 E HARUNA/AU
 L11 54 S E83,E95
 E TOHRU/AU
 L12 136308 S (ASAHI? OR DENKA? OR KOGYO?)/PA,CS
 L13 1313 S (NUCLEAT?(L)AGEN?)/CW,CT
 E NUCLEATING AGENT/CT
 E E4+ALL
 L14 21615 S E2+OLD,NT
 L15 776 S E13+OLD,NT
 L16 776 S E16+OLD,NT
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 L23 8 S L22 AND ?PHOSPH?

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FILE 'HCAPLUS' ENTERED AT 13:54:14 ON 18 OCT 2005

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 L30 21 S 106396-29-6/CRN
 L31 22 S L28-L30
 L32 32 S L27,L31
 L33 STR
 L34 31 S L33
 L35 552 S L33 FUL
 SAV L35 SHIAO9304/A
 L36 345 S L35 AND (C6-C6-OPOC5 OR C6-C6-OPOC6 OR C6-C6-OPOC7 OR C6-C6-O
 L37 207 S L35 NOT L36

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 L41 177 S L39 FUL SUB=L35
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 L48 65 S L43 NOT L44
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 L50 22 S L29,L49
 L51 11 S L32 NOT L50
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 L55 374 S L35 NOT L41,L50,L53,L54

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 L59 89 S L55
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 L61 40 S L13-L18 AND L57
 L62 5 S L13-L18 AND L58
 L63 4 S L13-L18 AND L59
 L64 232 S L60-L63
 L65 143 S L64 AND (PY<=1999 OR PRY<=1999 OR AY<=1999)
 L66 34 S L65 AND RESIN?
 L67 137 S L65 AND PLASTIC?/SC,SX
 L68 49 S L65 AND PLASTIC?/CW,CT
 L69 34 S L66 AND L67,L68

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 L71 6 S L70 AND C29H43O4P

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 L73 286 S L72 AND (PY<=1999 OR PRY<=1999 OR AY<=1999)
 L74 62 S L73 AND RESIN?
 L75 244 S L73 AND PLASTIC?/SC,SX,CW,CT
 L76 59 S L74 AND L75
 L77 67 S L1-L12 AND L72
 L78 48 S L77 AND L73
 L79 42 S L78 AND L74-L76
 L80 88 S L76,L79
 L81 85 S L80 AND P/DT
 L82 11 S L81 AND US/PC,PRC,AC
 L83 59 S L80 AND L74
 L84 59 S L83 AND P/DT
 L85 10 S L84 AND US/PC,PRC,AC
 L86 15 S L1-L11 AND L73
 L87 69 S L76,L86

FILE 'REGISTRY' ENTERED AT 14:20:03 ON 18 OCT 2005

FILE 'HCAPLUS' ENTERED AT 14:20:49 ON 18 OCT 2005

L88 91 S L73 AND L13-L18 NOT L87
L89 88 S L88 AND P/DT
L90 12 S L89 AND US/PC, PRC, AC

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